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## RURAL NOTES.

Throwitug fudder unthe ground for shecep is a waste. ful practice. Raks will mure than pay fur themselice in a single rinter, and any handy farmer can make his orm. Erres that aro w drup lamby need warna and soparato pens.
Mr. L. J. Hess, President of the Cnion County. Tllinois, Agricultural Board, says the ice sturm seens to have bencfited the growing wheat, as it nuw louks green and fresh, while before the sturn all wheat looked dead. Fruit not damaged.
"Tuert are three classes of animals in which I have great faith," says Juhn Dryden, M.P.P. for Suuth Ontario. "Thess are Shorthurn cattle, Clydesdale horses, and Shruphire shecp. Fur mutton and woul the Shropshines can't be beaten.'
Tref fanner who holds his grain keeps back just so much monoy from circulation, while the grain itsolf shrinks in weight and furnishes a ready store of food for rats. It is not tho best econumy to keep ono's granary full, even though prices aro lors.

If is a mistake to suppose that exposure to severe weather makes animals hardy. They are far better off under covor during storms, but the buildings in which they aro housed should be provided with thorough means of ventilation. Wholesome air is a primo re quisite of health
Thincos to the statistics of grain productions collected by the Burcau of Industrics, Ontario is now being thoroughly advertised throughout Great Britain. Agricultural and other jol tals are giving thoso sha tistics a wide publicity, and our Prorince is likely to be a large gainer in consequence.

A artrie linseed mesl is excellent for horses and colts, and any team will do better with a sprinkling of it in their oats every day. Sheep will fatton faster mith a mixture of it, and their mool will be brighter and better. Linseed improves the look of the cast whether it be hair or wool.

A parner who has had much experience in drain ing land says that, when quicksand or unsound ground occurs, drains should be cut widor and in some cases doeper, with their sods trampled down along the bottom before cither tiles or stone conduits are introduced. Sods thus placed always admit water freely, and the substrata in ennserpence rery sonn becomes solid.
It 15 a pretty well established fact that the greatost profits in fattening cattle aro mado on young anumals. At the Chicago Fat Stuck Show a statement was mado that a tro-ycar-old steer gnvo 8 profit of naarly fifty dollars on its scoond years feading, whulo tho next year gave only a prufit of soren dollars. The profit hos in pushang young anmals constantly until thoy aro rosdy for market, and sollung them as soon as thoy are ready.
Tan Chicagc Purmers' Revicu says the herd of Giai Jokeys onnod by Mr. Thomes McOrac \& EOn, of

Guelph, is the largest un thas sido of the ucean. The seniur partner, the lecieve silys, has been breeding Galluwass luhar than amy uthor .aan in the Caited States ur Canada. Last apring he purchased in Scot land forty-eight of the choicest animals procurable. This to the insgest ingrortition of theme wer made in America.
In a report of the transactions of the Michigan Horticultural Suciety, twu years ago, it was statod that the application of dry slaked lime to apple trees white in blussom was an offective remedy fur tho cudling moth pest. A Maine farmer has tried it with very satisfactory results. The lime, he says, should be ap plied two or three times - thrown all thruugh the tup of the tree and upen all sides of it. If applied when the blossums are wet, all the bettur. Pruf. Beal, of Michigan, claims letter results are citnined if Paris green is mixod with the lime.

Nuw there is a guod chance fur unr farmers tu in prove the appearance of their farms, and at the same time to considerably increase their value. The On tario Tree-planting Fund, created by an Act of the Legislature, only requires the cu-operation of township municipalities to enco., rago overy farmer to plant all the borders of his farm with trees. In a few yoars those trees would give a measuro of sholtor to his wheat fields, would beautify his farm, and in time would furnish a supply of valuable timber for many ncedod purposes. For ar wooded cuuntry Ontario is being rapidly denuded of its forests, and another goneration mas seo the clder settled portions of it with as luw a percentage of rooded to cleared land as Old England itself.

Ir is doubtful if a.ty other remedy can be used for the pea bug pest with half the goud results of starva tion. So long as farmers continue to grow pea-food the bug will live on and prosper, perpetuating his kind from year to year. One fied in a township is enuugh to sare him from extinction, and rithuut commun ac tion on the part of farmers there seems to be no hupe of getting rid of him effectually. Thero are laws for stamping out diseaso in animals, and why not for starv ing out the peabug? An Act which would authorizo township or county councils to prohibit the growing of peas for ono or more years, when considered necessary in tho public interest, would probably answer tho purposo. It is a matter of no small consequonco to savo the country agsinst annually recurring losses of thre or four hundred thousand dollars.

Is the native moods of Ontario malnut trees have not been found north of a line drawn from the neighbe urhood of Eamilton to the mouth of St. Clair River Sc statos Dr. Bell, of the Geological Survey Service But it is a fact that malnut can bo grown considembly further north. Trees plantod in the neighbourhood of Lindsay are thriving well. At the same time wo shuild prefer to confino the oxperiment of growing this or any other species of troe within tho limits of its habitat. Thoy may grom and flourish boyond for a timo but thoy aro liable to bo injured any winter by a for days of intonso cold. One of the grest mintalies made in piantiog aitino urchards in the aurthern hers of countion has been, the selection of popular variatios
grown in the warm regiun of the Lake Erio countion. A more careful sulection of hardy varisties is needed
 in this particular.
Fuls al ng thac it was cunsidured that a good quality of sugar could not be produced from the sorghum cane, but with improvod processes and intelligent managemen. the question is nu lunger a debatable onc. There are sugar woiks at Champaign, Illinois, that turn out batch after batch of sugar from sorghum with precisely the samo certanty that the Southern planter does from the sugar cano. This sugar is said to have no gorghum flavour nor gummy chameter, and will sell m the samo market at the same price as tho Nuw Orleans article, giving the same satibfaction. A West Indies sugar-maker is thas year going to try the expermant in the county of Essox, in the westera part of this Pruvinco, and ho is confident of success. He has already made arrangements for the planting of vier two hundred acres wath surghum, and the sugar wurhs wall be crectod at Essex Centre. Bis expers. ment will bo watched with lively interest.

The Mark Lane Express, in a review of the British grain trade for the wrek ending Jan. 27th, eays: Tho prospects of the growing wheat crop are about the same as last week, but tho outlook for Spring cultivation gets matorially worso as the season advancas. There was a weaker feeling in Enghsh wheat at the close of the week. Flour is weaker. Trado in foreign wheat restricted by higher mates. The supply of wheat in London comprises 17,376 bushels from India, 40,072 bushels from Germany, 28,504 bushels from American Atlantic ports, and 20,332 bushels from Rusia. American maize is cheaper. Barloy firm, but quict. Trudo in wheat cargoes off coast small. Red Winter unchanged. California highor. Demand ior wheat cargoes afloat or for shipment slackened the past week and business done chiefly in Russian grades. Sales of Enghsh wheat during the roek wero 500,280 bushels at $\$ 1.26$ per bushel, against 399,104 bushols at $\$ 1.44$ for the corresponding perrod last year.

The Ontario Legisiature has thes year made an appropriation of $\$ 3,000$ for the purchase of new varietios of seed grain, the intention being to mako use of Agricultural Sociotics as agencios for its distribution. There is much need of introducing netr vanctics of spming wheat and potatoes, but great caro should be taken in making selections. Fraud is easily practused in the seed business; and not a few people who consider thenselres as honest an the patranchs think it is no crimo to cheat the Government. A good ides would bo to offer liberal prizos to our hybridists for any nem varieties of soed of established saerit which thoy may originate. Tho Vermont farmer who originatod tho Early Roso potato rendored a most valuable servico to the farmers of the Cnited States and Canada. Hybrdizing is an intorest that doserves to bo oncouraged. There is no reason to beliove that tho best possiblo varietics of fruits, roots or grains aro boing curtivated now in Ontario, and horctoforo our farmore have boen relping almost exclusively on foroign hybridists for "now blood." Wo mould liko to soe auto attoutiun sitan is usiginating now racietisa at homa,

## FARKM AND FIELD.

## NUT-BEARING TREES.

The value of overy farm may be uncreased and the pleasure of its occupants enlarged by a good collection of nut-bearing trees. In nearly evory portion of the north-west the black walnut, the white walnut, or butternut, the common and sholl-back hickory, and the pocan are hardy and productive. In many sections the chestnut also does well. There are several varieties of oaks that produce acorns that are edible and, indeed, palatable when rossted. All kinds of acorns are readily eaten by pigs and sheep, and in England they are oxtensively raised for stock food. All these trees are valuable for producing fuel, and some of them furnish excellent lumber. They are of somewhat slow growth, but their growth may be increased by care in planting and judicious cultivation. As the young trees are difficult to transplant, on account of their tap-roots, it is generally best to plant the nuts in the place where the trees are wanted. As the trees are all stately and have widespreading branches, they should stand quite a distance apart. If they are planted in a field that is to be cultivated while the trees are small, it is desirable to locate them where each will occupy the place of a hill of corn or potatoes. As hills of corn are ordinarily four feet apart, the trees should stand at a distance from each other equal to some multiple of this number, as twenty-four, twenty-eight, or thirty-two feet. The latter distance is best for the trees after they become of large size. The trees, if planted as recommended, will not be greatly in the way of ploughing or cultivating when they are small, and after they become large the lend can be soeded down to grass and used as a pasture for sheep, pigs, or young cattle. Nat-bearing trees may also be planted in pastures, along the sides of fences, or on the sides of roads.
A sufficient number of nuts to plant a grove can be obtained with little trouble or expense. They can often be collected by travelling a short distance, or they may be obtaiued of deslers in seeds. Much has been written about the necessity of keeping the nuts warm from the time they drop from the tree till they are planted. It is altogether likely that they will germinate more readily if they are not allowed to become dry, but it is not likely that their vitality is destroyed or even greatly impaired by their becoming dry. Of course they should not be allowed to become mouldy, as the mould would be likely to destroy the germ. Fruch has also been written about the necessity of exposing the nuts to the action of frost, so that the two parts of the shell shall be opened before the germ begins to expand. Undoubtedly the freezing is beneficial, but that the germ would force the parts of the shell apart without the provious aid of the frost seems evident from the fact that the pecan, walnut, and butternut, do grow both in a wild and cultivated state in portions of the south where there is not'a sufficient degreo of cold to form ice. Many tropical countries, like Brazil, produce a great varicty of nutbearing trees, and there is, of course, no frost to aid in opening the shells of the nuts. What is known as the English walnut is a native of Persiź, a country in which frosts do not occur.

Old practices are ofton followed for conturios for the reason that no one ascertaing by experiment whether they are necessary or not. If it can bo demonstrated by experiment that thoroughly dried nuts will germinate snd that freezing is unnecessary a much greater number will be planted. Many now neglect to plant them because thoy cannot obtain them in the condition they think they should bo to insure germination.

And the trees mentionod are desirable for affording shade as well as for the purposes of ornamentation. To cause a rapid growth the ground. where thoy aro planted should bo put in good condition. It is true that the roots of these trees will force themselves through very hard soil, but they will extend further and afford more nutriment to support the trees if the ground is rendered soft. It is advisable to excavate quite a hole where the tree is to stand, and to loosen the subsoil at the bottom of it with an iron bar to tho distance of several feet. This will afford a chance for the tap-root to extepd. The hole should be filled with forest leaves, well-rotted manure, and fine soil. It is well to plant several nuts in the same place, and to select for raising the sprout that gives the greatest promise at the end of the first or second season. Strong stakes to protect it against animals should then be placed on each side of the tree. The soil for several fect around the tree should be kopt free from weeds and grass, and well worked or covered with mulch.

There may be little profit in nuts that can bo computed in dollars and cents, though they may often be sold to good advantage to persons who wish them for planting or eating purposes. They add, however, much to the enjoyment of life. Nuts are omotive of sociability end pleasure. A few nut-shells thrown on an open fire will cause the room to be filled with a delightful odour while they make a cheerful blaze. When home grown they furnish chesp luxuries that farmers can hardly afford to do without. Nuts have long been associated with pleasant conversation. In one of the sweetest songs of Tennyson an old man is represented as addressing his wife in these words:-

> " So smoet it soema to thee to talk,
> And onco again to rioo theo mino;
> Lis lixo tho altar-dinner talk
> Across the walnuts snd the wina."

How to procure and preserve a supply of ico in the best manner is a question which, just at this season, occurs to a great number of farmers and dairymen.
In cutting ice the tools required are a saw, an ice-hook, an ice-float, and icc-tongs. The saw may be a common cross-cut, from which one handle and socket are removed, so as to leave one end clear. The ice-hook is a pole about twalve feet long, having a sharp-pointed spike at the end and another projecting at right angles, about three inches from the end, in the form of a hook. This tool is to push or dran the cakes of ico to the loading place. The ico-flost is a piece of board about six feot long, having hand-holes cut at ono end, and at the other a thick cleat nailed across to hold the cake of ice This flost is pusbed under the cake of ico as it is brought to the landing place, 3 坡at the ice may be littell end drawn
out of the wator on to tho bank. The icotongs are simply a pair of grab hooks, with aharp points and handlos, by which tho block of ice is lifted into the sloigh or waggon.
The ice should be cut into rectangular blocks of equal sizo; a conveniont size is $10 \times 24$, or $12 \times 18$ inches, according to the thickness and woight. These are conveniont sizes for packing, as they match the sizo and shape of the ice-house, whether it be square or in the proportion of $12 \times 18$ feet or $16 \times 24$ feet.
The ice-house requires four special necessary points to be secured: First, a dry foundation; second, the oxclusion of air; third, a sufficient non-conducting covering for the ice, and fourth, ample ventilation above the ice.
The packing of the ice is an important matter. The mass of ice should be solid and without any air spaces in it. As the blocks are brought in oveuly cut they are fitted closely: but, as the cutting cannot be done exactly to rule, there will be some spaces here and there between the blocks. As the blocks are built up, some spare pieces should be broken finely and the dust swept with a broom into the crevices and packed down with the edge of a broad chisel titted on to the end of the broomhandle. Every tier should be well packed in this way before another is begun. If this is well done ice may be kept two or three years in any well-made ice-house and will wasto very little in one season. At least one foot of dry sawdust should be placed on the floor for the ice to rest upon. The house should be filled in the coldest, dryest weather, and it should be left open a day or two before it is filled. If the weather is very cold the blocks will freeze and the whole mass become very solid if the packing is well done. If inside packing is used this should be put in as the ice is built up and trodden down firmly, and each tier of ice should be swept clean as it is finished. More than half the failures in keeping ice are due to neglect in the packing of it.

By economical management, 100 pounds of ice a day may be made to serve for a dairy of thirty cows with the use of a Cooley or a Ferguson creamery to set the milk in. In making the inside door of any kind of ice-house, pieces of boards are used, placed across the doorway, to keep the sawdust in place, and the space may be protected by several sheaves of straw pacied into the doorway. As the ice is used a piece of board is taken array as may be required.

## FARMERS' CLUBS.

The thinking, progressive members of nearly every occupation and profession have their clubs or associations. The enterprising farm: ers of every county should sustain one or more. The following are some of the many important advantages derived from thom. Thoy bring farmers together, and often lead to desirable ecqusintanco and friendship. They awaken thought on many important subjects, and lead to more accurate observations and more accurate conclusions about the results of the various methods of cultivating, managing, feeding, etc. Thoy awaken e spirit of inquiry, and lead to reading and ccnversation on subjects connected with farming. They apaken a spirit of halthy emulation, \& spirit of enthusiasm, and lead to greater efforts to produce good crops and to raise good stoak,

The proparing of essays and speaking at the meetings awakens and develops intellectual ability. Tho members observe that the power to think and express thuught clearly gives men position and influesce. This leads them to take more interest in educating their families and in promoting every educational enterprise. They tend to give young people correct notions about the value and dignity of farming, to give farming its true position among the useful and honourable occupations, and thus lead the sons and daughters of farmers to respect and follow the occupation of their parents. The meetings should be monthly, oxcept in the busy seasons, and continue from two to three hours. To make them successful a good prosident is necessary. He should know the good farmers among the members, and have great ability to lead them to state their methods and the results to the association. Have a committee to select questions, and intolligent persons to lead in discussing them, and a good secretary or competent persons to make full reports of the meetings for the county papers. In counties where they do not exist, now is the tume to begin.-Prof. Win. Smith, Xenia College, 0.

## A PLAN FOR DRAINAGE.

Let some enterprising tile manufacturers select careful farmers who own flat lands, and make them something like the following proposition. That the farmer make estimate of his average crops, and the tile manufacturer propose to furnish the tile necessary to drain thoroughly the lands designated in the agreement, the farmer to furnish the labour of putting in the drains at a stipulated price, to be paid out of the excess of crops grown on the land, over and above the average yield before agreed upon, and the manufacturer agreeing to take the balance of the increase in four or five crops (as agreed) to cover the cost of tile.

On level lands, where the average crop runs low and the land by nature is rich, it is a safe proposition for the tile manufacturer if the farmer honestly preforms his part of the contract. On rich, level lands that need drainage, and need it badly, it will pay twenty-five per cent. annually on the investment, and in some instances nore.-Drainage Journal.

## LIFE ON TEE FARM.

As to its drudgery-whatever has been the case in the past, where there were stumps to be pulled and mortgages to be lifted from simost every 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 an artisan in the shop, who has his own garden to hoe before breakfast or after supper. The busy laryer and the doctor in average practice work longer and harder than the farmer. The grocer and the editor and the book-keoper each sees less of his children in their waking hours than the farmar who sometimas envies them their "easy lifa."

It must be conceded, of course, that the profits of farming are not so large on the average as those which are realized by men who aro successful in mercantile life. But, such as they are, thoy are surer-twenty-fuld surer, at least. Large profits are always contingent on large risks.-Pruirie Farmer.

## PLANT MEDIUM-SIZED POIATOES.

The following figures show the results of experiments made in growing potatoes at the experimental farm of Cornell University, Ithaca, N. Y.: The Early Rose variety was planted May 10; the soil a sandy loan, unmanured, and moderately fertile. Each plot consists of a single row fifty feet in length. The rows were four feet apart, and the sced was dropped eighteen inches apart in the row. Below is the yield in pounds:

Potatoes less than an average sized hen's egg are classed as small. It appears that medium-sized potatoes, cut to two eyes, and two pieces to the hill, gave the best resulto, that deep planting and fiat culture did the best. These experiments, if they do nothing more, point out to our readers the advantage of such trials, and we hope there will grow among farmers a disposition to make annually similar tests in the culture of any and every farm crop. Much can be gained in this way.

## LET THE LIGHT IN.

There are few farm-houses in which at least one room-often one of the best-is not kept shut up most of the time ; and the spare-room intended for visitors in city homes seldom fares much better, so far as the admission of light and air are concerned. Then we put blinds on our windows to keep out the heat in summer and let them keep out the lightall the year; we hang up curtains for purposes of household decoration, and regard the resulting gloom as a necessity of modern life; we even devise all fantastic forms of coloured glass for our dwellings in order to modify what little light does get in.
No house can be clean that is dark; and no house that is not clean can be healthy. Pure light is a purifier. It destroys the poison of organic disease. Its efficacy in this respect may be illustrated by the fact that the poison of the most dangerous of serpents, the cobra, which will retain its fatal power indefnitely if kept in the dark, becomes innocuous after continuous exposure to the action of sunlight. lot the light into every room, then, every day.-N. Y. Ledger.
Prune the trees that need it most, whenever the weather is mild, or else it may bo neglected antil the hurry of the spring work begins, which will reńder it impassible. Paint the wounds with light-coloured paint.'

HINTS FOR THE HOUSEHOLD.
Lemon Syritr.-To overy pint of juico, add one pound and a quarter of white sugar. Simmor until clear, then cool and bottlo, corking tightly.

Bleachina powder can be obtained by the combination of chlorine with dry slacked lime, but is commercially obtained as a bi-product in the manufacture of sode. The first application of bleaching powder for bleaching purposes was made towards the end of the last century.
When colour on a fabric has been accidentally or otherwise destroyed by acid, ammonia is applied to neutralize the same, after which an application of chloroform will in almost all cases, restore the original colour. The application of ammonia is common, but that of chloroform is but little known.

Carefle cooking of even the longest used and best known kinds of foods, whether aninal or vegetable, is the important rule to insure health and strength from the table. No matter what the quality of tho food to begin with may be, a bad cook will invariably incur heavy doctors' bills and a not less inconsiderable "little account" at the druggist's.

Beef Hash.--Chop cold cooked meat rather fine; use half as much meat as boiled potatoes chopped, when cold. Put a little boiling water and butter into an iron saucepan; when it boils again put in the meat and potatoes, well salted and peppered. Let it cook well, stirring it occasionally. Serve on buttered slices of toast, daintly arranged on a platter.
Mince Pies.-A good disposition in winter of cold roast beef is to make with it two or three mince pies. One cupful of chnpped meat, quarter of it fat, two cupfuls of apple, one teaspoonful of salt, one tablespoonful of ground cinnamon, half $a$ tablespoon of ground cloves, one cupful of sugar, half a cupful of raising, half a cupful of currants, one cupinl of cider; or, if proferred, one cupful of cider vinegar and water mixed.

A great labour-saving article, and like some medicines, good for almost everything, is ammonia. A small quantity in warm water takes every spot off of paint, removes every particle of grease from cooking utensils, cleans and disinfects the drain pipe, cleanses delicats laces without rubbing, cleans silver, brushes, etc., and is an excellent fertilizer for plants. Like other good things, it must be carefully used, plainly labelled, and kept out of the reach of little fingers.

Pot all scraps of bread into the oven until they become a nice brown, roll them while hot quite fine. For a good-sized pudding take half a pound of crumbs, quarter of a pound of currants or raisins, oae pint of milk, one teaspoonful of allspice, and one pint of boiling water. Pour the boiling water over the crumbs, stir them well, and let them soak until soft; then take all the ingredients, mix well, rub the pie dish with beef dripping, fill it, put some more, dripping or butter on the top of the pudding, and bake half an hour. This pudding is a general favourito with chil. dren and those who like a plain dish:

## GARDEN AND OROEARD.

## OLD ORCHARDS.

I do not intend to spenk strietly of orchards planted a long while ago; but of all orchards that are dying out. I have one planted in the last contury. I am sorry to say that it was mostly dead before I knew how to treat it.
My plan was, as soon as a troe showed signs of serious decay, to plant a young tree near by, that should take its place when no louger of any value. The young tree would thus get several years advance toward fruit-bearing before the old tree was removed. The plan was far from being the best. I find now that when the old tree has a solid trunk, or fairly so, it is advisable to allow a few suckers, carefully selected, to grow at the baso of the limbs, and with them form a new top, cutting out the old limbs. This, however, cannot always bo done, and will, perhaps, not always be desirable. But, at the roots, select two suckers that start a few inches from the trunk; trim away all others; trim these carefully and prepare them to take the place of the old tree.
Select two to stand for a few years, since one may fail in some way to be reliable. These should be grafted in due time; and, when a fair selection can be made, cut away the poorest. A tree started thus on the roots of the old tree hes a vast root growth to feed it and it will grow with enormous rapidity. Cut the old tree when desirable, or before the young is made unshapely, and you will hardly know you have had a vacancy.

The same rule holds good with blighted young orchards. Last year thousands of apple trees were killed in Central New York. I have seen whole orchards of fine young trees swept out, and nothing done about it. But I have rarely seen a tree thus killed that was not soon surrounded with scores or hundreds of twigs. Now let the owner clean away promptly all but two, care for these two, and then, in time remove all but one. In five years his orchard is all there again, restored with double vigour of growth and not likely to meet with another fatal disaster for fifty years.

Driving by a large orchard of dead trees, lately, I asked the owner what he proposed to do about it. "I'm discouraged," he answered. "They had just begun to bear, and away they have all gone in a dash." "But," I said, "if you will spend one-baif day now among those green twigs that shoot up at the bottom. ynu will not lose your money, your courage, nor your orchard. If you dig them out and set anew, it will cost a large sum." "That looks reasonable," be answered, as I explained the process. But two months have passed, and he has done nothing. So one year is lost and the end will probably be the axe or the spade. It is getting to be a matter of a good deal of importance, also, for the public at large, that farmers who grow orchards elinsinate varieties that are not hardy and profitable. In renewing an orchard, reduce your list of varictics. This exceedingly bad year I find but
one really fine lot of apples in my orchard. Every treo of the Kirkland is full of fino, clean fruit It is a seedling of this section, of remarkably tough wood and hardy as an clm. The Hubbardston, Nonesuch, White Pippin, and Northorn Spy aro also doing fairly woll. Greenings give considerable fruit, but not fair. It is a sharp test year on fruit, as the past two winters havo severely tested the wood.

In renewing my orehard, I am inclined to secure, as far as possible, apples native to this latitude. The Spy, the King, the Kirkland, and the Baldwin are four varicties that do well constantly; but the King is utterly unsuited to graft in for renowal. When I succeed in making a now head for an old tree, my choice is to graft in the Baldwin. It will come to quick bearing and pay speedily for your trouble. The Roxbury Russet is also a good graft to speedily form a new head. The chief difficulty with the Baldwin is that it will overbear, and, as the wood is brittle, will split down. This makes it a better graft for old trees than for young ones.

Most of the difficulty with our old orchards
has not a solitary plant for salo, and does not expect to have for several months to come:
"' Heliogabalus Double Early,' is a largo and squat berry, with blue cyes and a coy, winning mouth, bursting all over with coquettish sweotness. It is a good grower, but requires judicious tickling with a straw to awaken it to a generous enthusiastic interest in its own cultivation.
"' Reddy the Blacksmith Round Top Seedling' is a good family berry; but of no uss in general society: The last crop was a failure, owing to the name, which weighed heavily on the berry, and retarded its growth.
"' Blue Jeans Late Canadian Songster' used to be fine, but has fallen into dissipated ways, and is more or less stunted, and has an acid flavour, like an old maid whose last hope has just been carried off by a red-headed girl with freckles.
"'Calithumpian Aurora' is a beautiful boarding-house berry, much admired by dealers. Owing to its modest and retiring habits which impel it to grovel on the cold, cold ground, it is enabled to pick up and retain large quanities of sand and dirt, on which account it is sometimes called 'Triumph of Real Estate,' or 'True Grit.' This berry may also be used by careful housekecpers in the place of bath brick.
"'Tuscarora Conquest' promises to develop to such wonderful proportions that two of them adroitly manipulated by street venders, could be mede to fill a box with bottom located about half way to the top. It also promises that each would be sufficient for a short cake. However, it is not great in size. It is probably as small as Conklings chances of becoming President. 'Tuscarora Conquest' is a slender, low-necked specimen of its kind, and, when feeling well, is produc-
requiring renewal is the lack of proper and prompt trimming. Suckers take the life out of old limbs with great speed. There should be a regular annual pruning, as annual haying. You may as well expect your wheat to take care of itself as your apple trees.-E. P. P.

## CRAB APPLES,

The leading varieties of Crabs grow in every part of Ontario and yield very large crops. At Arnprior, and in Muskoka, as well as in the front counties, the Siberian (illustration above), Transcendant, and Montreal Beaaty are found to be equaily prolific. Tho Siberian begins to yield fruit in four years after its removal from the nursery, and bears a profitable crop in six. The cthers are also early bearers.
THE LATEST NEW STRAWBERRIES.
A correspondent sends the following account of the latest remarkable new seedling strawberries to a New York paper. It is to be remarked that the descriptions sent are wholly in the public interest, and not from any selfish motive on the part of the writer, as he
 tive as a Spring poet. The
it is with a pair of ice tongs.
"'Fur Tippet' I consider one of the finest berries I have ever seen. This berry is so phenomenally intelligent that it cau be trained to jump through a hoop and do light chores about the house."-Gardener's Monthly.

## GRAFTING THE GRAPE.

Professor Budd gives the following directions in the Ioura Homestead for grafting the grape. Root grafting, he says, is as easy and certain as grafting the apple. Scions of Delaware and other fine sorts may begrafted on such strong-growing vines as the Concord, inserting the grafts on the crowns of the roots early in winter, merely winding with waxed thread without waxed-plasters, and packing in bozes till spring. For out-door work wait till the leaves are about tivo-thirds developed, and set the scion, by whip or cleft mode, low enough to be mounded for covering the place of union; the graft will usually make a good growth the same season. Professor Budd has known the Delaware thus grafted on wild vines to bear a growth of ten feet the same season and make crop the next.

## THE DAIRY.

## GETTING THE OREAM.

The best process of making sweet butter, or more proporly'sweet cream butter, is as follows: For this product the cream, whether in dairy or creamery practice, is almost universally obtained by the cold process, and the milk should bo sot as soon after it is drawn as possible, and promptly cooled. The use of covered vessels should be avoided. If the vessels containing the milk are surrounded by cold water or cold air, there is no possible, advantage in their being covered, while the quality of the butter is impaired by the means. Not only is the quality of the butter improved by exposing the milk and cream to the action of free air, or air from which the yapour has been condensed by contact with ice or ice-cold water, but the flavour and arome of the butter are improved. No funnel, tube, or othor attachment to any form of cover ever yet began to remove noarly all objections to it.
In the Danish practice, the milk is set cold, and skimmed at twelve hours. In many dairies, and indeed it is claimed to be the more general practice, the milk is skimmed twice, only the first skimming going into the sweet product. The'cream from the morning's milk is kept cool over night, and the next morning mixed with that from the evening's milk. It is then put into warm water and the temperature raised to $52^{\circ}$ Fahr., stirring it meantime to make sure that it is all evenly tempered and aired. It is churned in a geared churn with vertical paddles, driven rapidly for forty minutes, during which time the temperature rises to $59^{\circ}$ Fahr. No water is allowed to come in contact with it at any time. If it is desirable to fill up the churn, now pilk is used. For rinsing down the churn, skim milk entirely sweet is used. When the butter comes in little pellets it is "sieved," or as we should say, it is collected on a hair sieve, through which the buttermilk is atrained, then carefully hand worked till the residue of the buttermilk is extracted, and gathered into little lumps of two or three pounds. It is then weighed, and salt to the amount of three per cent. of its weight sprinkled over it, when it is piled up and left to become solid and for the salt to draw any remaining particles of milk. It is next cut across the lumps, mixed, and the salt worked into it. If it has become soft in the process of working, it is broken up and placed in a tin vessel, with sticks to keep it from contact with the tin, till it becomes firm. It is then rolled with plated rollers a fove times, packed in wooden tubs and sent to market. There it is graded, resslted and tinned, aftor which it goes to the ends of the world in perfect condition.

In making Petersburgh butter, whish is a popular European sweet-cream butter, the cream is heated to about $160^{\circ}$ Fahr., being frequently or constantly stirred, It is then cooled to a low churning temperature and quickly churned. The subsequent troatment is not essentially different from the Danish. It is considered by connoisseurs much the finest buittor made.
In making American sweet-cream butter the process of manufacture does not materinlly
diffor from the Danish, oxcept that it is generally washed and rarely worked by hand. It is porhaps more genorally made of the cream taken off the milk to bo made into cheese in the two-product creameries. The stock from which it is made is unquestionably superior to the Danish, and with the same care and labour bestowed upon its manufacture, it ought to be the better article. That it is not is the almost unanimous testimony of commercial men and experts.-Live Stock Journul.

## DAIRY FARMING.

Dairy farming is naturally divided into three great classes-butter making, cheese making, and milk selling. Probably the order of development, in time, is as given. Butter making is one of the oldest of arts, and is practised in almost every country in which the cow is domesticated. Cheese making is also ancient and widespread. Milk selling, as a prominent feature, is found only in countries with comparatively densely populated towns and cities. In the last twenty years this branch of dairying has not only grown enormously with the growth of our cities, but its methods have greatly changed. Instead of reliance on dairies bept in or near the cities, the great mass of the milk now supplied to our great cities is carried by steam cars from farms in the surrounding country, some of them fifty or sixty miles distant. This change is almost as striking as is that from the manufacture of cheese and butter exclusively at the farms to their manufacture in large establishments handling the milk from a score or more of farms.
. . . If we seek reasons for the good profits which dairy farming, wisely pursued, has generally given, we will find that dairy products are not only in constant demand, but that the demand is increasing ; that there is great difference in the quality of these products, with corresponding difference in price, and consequently even greater difference in the profits; that cheese is well adapted for export, and it and butter, from their small bulk in proportion to value, are well fitted for comparativoly long shipments. Perhaps more important tuan any of these reasons is the fact that the dairy farmer must necessarily give constant, daily attention to his work, and that this work gives room for as much skill as does any branch of farming; more than most other varieties.-Brceder's Gazette, Chicago.

## THE " COMING COW."

The position that the "coming cow" is to be one well adanted for both beef and milk production, we believe to be correct, if it be not pushed too far. There is an increasing number of dairy farmers who find it best to give almpst exclusive attention to the quantity and quality of the milk given by their cows; caring little about their merits as beef makers. So there are beef-producing farmers who properly count it a disadvantage if a cow gives a large flow of milk. This is true on the western plains. It is true of suct farmers as J.D. Gillette, who only ask of a cow that she shall produce and feed a calf each year. But both these classes form but a minority of cattlo raisers. The most successful dairymen and the producers of the very finent beef ani-
mals may be found in these classes; but the great majority of cows and of steers for beef are, and long will continue to be, raised by men who cannot afford to ignore oither tho milk-giving or meat-producing quality. For such men the popular breed must be one with deserved claims to good quality in both directions. It is quite possiblo that several breeds may, in the future, be claimants for higheat merit for this double purpose, but the course of breeding now adopted by the special friende of most leading breeds is calculated to develop one of these qualities at the expense of tho other. The Short-horn has never been surpassed, if equalled, as a "general purpose cow." Ought she to lose all reputation as a dairy cow? -Breeder's Gazette, Chicago.

## MILK.

There is much to be learned yet concerning milk. We know that milk is not a filtration, but is manufactured within each division ot the udder, and is therefore variable according to the working power of each separate factory. We know there is a difference, through analyses of the milk of each teat separately, as such analyses have shown a variation in physical constituents as well as of structure. We also note that what effects the efficiency of the factory has also a perceptible effect upon the milk. It is this relation between trie milk and the cow which catises the dairy cow to exiat, and which enables us to say boldly, that breed is superior to feed. On account of this structural relation of milk, its secretion becomes influenced by heredity, and the breeder is en. abled to add up qualities through successive generations of selection, even as the bookkeeper adds up his successive items in the column of his ledger, in order to obtain the total results. The heredity of the wild cow has not been selected in the direction of milk, The cow in a state of nature yields milk, but in the presence of her calf. The dairy cow, however, the creation of the art of man through the process of selection, has had successive advances in milk-giving added on to each generation, until, unlike the wild cow, the dairy cow yields. milk to man, irrespective of the presence of the calf to excite the flow. The wild cow may be fed the most succulent and milk-promating foods, and yet she gives no profit to the dairymen. The dairy cow, however, responds to feed in milk to a greater or less extent, according to the heredity of the milk secretion which she represents.

Under this condition, we should expect to find phenomenal occurrences in our individual cows, such as excessive yields of milk, of batr ter, or of cheese; yields prompted either by accidental circumstances, or else through what we must call the accidental accumulations of heredity in some special direction. Thus, in my past experience, $I$ have known the milk of each teat of the same cow to vary from twentyfour to forty-two per cent. of cream; and one day the milk of a cow, which usually only marked from thirteen to fifteen per cent. cream, gave distinct defnition of sixty pe cent. of cresm. Thus, some Jerseg cows have yielded as much as threo pounds of butter a day, or more ; thus some corvs have a record of rising 100 pounds of milk a day for several. successive days.-From (N.Y.) Eraperimonit. Station Bullefint,

## HORSES AND CATMLE.

## DEVON OATILE.

Col. M. C. Weld writes as follows in tho American Agriculturist: "Ono who sees a herd of Devons for the first time is struck with their extraordinary beauty and uniformity, and sees at onco that they diffor from every other breed, or stock of cattlo with which he is acquainted. They are of a brilliant, rich mahogany red, without white upon the body, but with white switches to their tails, and frequently with white udders. Though heavy in carcass, they are lightlimbed, and the older cows low-set. Their heads aro small and clean cut, elegantly placed and carried high, while they are adorned with long, light, tapering white horns, curving upward and outward. Their throats are clean; withers thin; necks free from dewlaps ; chests very wide, and briskets projecting and hung low. In girth they are large for their height, very thick through the heart, and unequalled in the crops, which point carries the fulness of the shoulders back to the ribs without perceptible depression. The backs are very level from the withers to the setting of the tails, which are long and delicately tapered. The loins are wide and muscular; the hips wide apart, the back long to the rump, while the thighs are long to the hocks, and in the twist well let down, yet in the lowor parts they are thin, giving room between them for capacious udders. The soft flanks are usually very low, giving the barrels a cylindrical, level look upon the under inne. Devons are commonly heavily coated, and the hair is wayy, if not positively curly, in many cases. The skin is plastic and mellow under the touch, even when the animal is in low condition, but when in good order it is typically fine, not thin and papery, but elestic and yielding under the pressure of the finger tips, and offering a mobile, unctuous handful if grasped over the ribs. The skin colour varies, but not a fow show a rich cream colour, indlining to orange under the fore-arm, and in the ears. Add io this description that the legs are short, small-boned and clean, that the whole carriage and style are elastic and graceiul, with a promptness and energy rarely seen in neat cattle, while the large, lively yet placid and fearless eyo idicates at once intelligence, confidence and repose, and we have a picture of a high-bred, beautiful and useful race of cattle, such as has no equal anywhere. The osen are much trained, very quick in their movements, fast walkers and untiring workess. The cows are deep milkers."

## TAKE CARE OF YOUR HORSES.

Never allow anyone to tease or tickle your horse in the stable. The animal only feels the torment, and does not understand the joke. Vicious habits are thus easily brought on.
Never beat the horse when in the stable. Nothing so soon makes him permanently vicious.
Let the horse's litter be dry and clean underneath, as well as on top. Standing on hot fermenting manure makes the hoofs soft, and brings on lameness. Change the litter partially in some parts, and entirely in othera
overy morning; and brush out and clean tho stall thoroughly.
To procure a good cont on your horse naturally, uso plonty of rubbing and brushing. Plenty of "elbow greaso" opens the pores, softens the skin, and promotes the animal's genoral health. Never clean a horse in his stable. The dust fouls the crib, and makes him loath his food. Use the curry-comb lightly. When used roughly it is a source of great pain. Let the heels be well brushod out every night. Dirt, if allowed to cako in, causes greaso and sore heuls. Whenever a horse is washed, never leave him till he is rubbed quite dry. He will probably got a chill if neglected.
When a horse comes off a journey, the first thing is to walk him about until he is cool, if he is brought in hot. This prevents his taking cold. The next thing is to groom him quite dry; first with a wisp of straw, and then with $a$ brush. This removes dust, dirt and sweat, and allows time for the stomach to recover itself, and the appetite to return. Also let his lugs be well rubbed by the hand. Nothing so removes a strain. It also detects thorns or splinters, soothes the animal, and onablea him to feed comfortably.

Let the horse have some exercise every day. Otherwise he will be liable io fever and bad feet. Let your horse stand loose if possible, without being tied up to the manger. Fain and weariness from a contined position induce bad habits, and cause swollen feet and other disorders.
Look ofton at the animal's feet and legs. Disease or wounds in those parts, if at all neglected, soon become dangerous. Every night look and see if there is a stone between the hoof and the shoe. Standing on it all night, the horse will be lame the next morning. If the horse remains in the stable his feet must be "stopped." Heat and dryness cause cracked hoofs and lameness. The hoofs should not be "stopped" oftener than twice a week. It will make the hoof soft and bring on corns.
Do not urge the animal to drink water which he refuses. It is probably hard and unwholesoms. Never allow drugs to be administered to your horse without your knowledge. They are not needed to keep the animal in good health, and may do the greatest and most sudden mischief.-Stalle Hints.

## A "COMMON FARMER'S" EXPERIENCE.

Cattle feeding, as practised on large, fancy stock farms, with stock scales, oil-cake, different kinds of ground grain, large quantities of roots and perhaps ensilage, and withal a thorough system of doing everything, is a fine art of which poor, ordinary, slow-going farmers know nothing. It is to this class that I unfortunately belong. I have no thermometer in my cow stable, and yet I try to keep my stock comfortable and I think that I succeed. I have no stock scales on my threshing-floor to weigh my young animals from time to time, and it is possible that in this respect I may be the loser when $I$ como to sell an occasional animal to an itinerant drover, for such a bargain sad sale is not much more
than a game of wits, and the drover has had tho most practico in guessing woights; hence ho may sometimes got away with several owt. of beof more than I thought I was solling. But, as I have intimated, I am not a fancy farmer end stock senles cost a good deal for first cost. There are lots of "fancy fixings" to bo employed in the care of stock, about which I do not know much or anything, and yet I try hard to take good care of my stock and make as much as possiblo from them. I do not keep a tabulated record of milk produced by each animal in the dairy during the season, nor have I a framed pedigree banging up in the stall of each animal, and yet I have a herd of registered Jersoys, and I know approximately ine value of each individual in the dairy. It is to such farmers as these that $a$ few hints on the winter care of stock may prove both timely and valuable. One of the most important things to stock during the winter is salt. In summer, stock manifests this craving for salt by chowing bone, old scraps of leather, etc., and in this way experience some little relief. I used to be told that whon stock chewed bones it was because their systems required bones, and the only way was to feed ground bone. With years' experience, I wish to say that this is most arrant nonsense. When stock take to chowing old pieces of leather and bones, there is no lack in their systems which good rock salt can not supply. In winter, stock can not usually find these old scraps of leather, etc., and have to depend upon the knowledge of the herdsman. I have a trough in the yard which is kept supplied with salt both winter and summer. In addition to this I give each animal in the stable a small handful. Carc should be exercised in giving salt to cattle; too much is very apt to induce sourng, which always produces an ill effect upon stock. This is the reason why stock fed upon haty, which was salted for the purpose of saving it, too often do not do as well as was expected. Stock require salt regularly, both summer and winter, and will not do well if deprived of it; but they should not be forced to take too much at any one time. It is an actuai necessity to stock, and with it they will need but little other physic.-F. K. Moveland, in Brecder's Gazette, Chicago.

## THE FARMER'S HORSE.-HOW TO BREED HIM.

On this important subject the Breeder's Gazette has a useful article from which we make the following extracts:-
But there is a happy mean-a horse that will weigh from 1,100 pounds to 1,200 pounds, and about fifteen and $a$-half to sixteen hands high; good-tempered, active, docile, intelligent, quick of motion, sure of foot, and easily taught. Such is the horso best adapted to the varied use of the farm. Not so high-priced on the market as the 2.20 trotter, or the handsome, stylish carriage horse ; not reared with anything like the certainty as whore 1,600 to 1,800 pounds weight is the sole end of the breedor's effort; but much better and worth much more money to the farmer than either of these, if he wants him for lis own use.
How can we breed such horses? With such mares as are now owned by a large proportion of the farmers throughout the western

States, he noed not concorn himsolf much about the size; thoy will be big onough to fill the requiremonts, because the thousnnds of Porchoton-Normans, and Clydesdales, and English Cart-Horses that have been imported within the past twenty years havo graded up the stock, so far as sizo is concerned, until tho size best adapted to the farmer's use is quite as ensily excceded as otherwise. If we are to continue to use stallions of tleso imported strains, lot our choice rest upon the smaller, more compact, quick, active, spirited ones among them; because, as a rule, thoy are too sluggish, too coarsc. too dull and too heavy for tho farmer's own use, howover well they may sell and however well they may be adapted to some other purposes. But, in aur opinion, more certain results will be attrined from the use of our own highly-bred strains of roalster and thoroughbred stallions, upon these large, howf acd three-quarter draft-mures. A strong, sound, well-muscled, intelligent, quick-gaited horse, with two or three good trotting crosses, such as Hambletonian, Mambrino Chief, Vermont Black Hawk, or Clay, built upon a thoroughbred foundation-not a " said-to-be." but good, old Lexington, or Glencoe, or Sir Archy, or Grey Eagle, or Medly, or American Eclipse stock, and you have something that, for the farmer's use, is as gcod as gold. And we are not sure that with our coarse, cold-blooded draft-mares it will not, in most cases, be quite as well, or even better, to let the top trotting crosses go, and take a large, strong, compact, sensible, business-like thoroughbred sire to begin with. The great trouble with the majority of thoroughbreds is temper; they are, as a rule, too high-strung and mettlesome for good workhorses. But our draft-mares, on the other hand, are too idiotic, and dull, and sluggish, and soft, and Hat-footed, and coarse-grained to bewell adapted to furm work; and so, hy blending the two types together for a few generations, wo may succeed in eliminating the bad and retaining the valuable features of both, and so produce the model farmer's horse.

## TRAINING A COLT.

Bad horses are more frequently made than born. It is very much in the bringing upin the way a colt is cared for, and the manner in which it is broken. Firmness, with kindness, goes very far in making a valuable horse. The colt should early learn that it is never to be deceived; that it is to be encouraged and rewarded when obedient, and punished by the withholding of caresses whon disobediont. The same natural qualities that make a horse vicious, will, with proper treatment, make one of those intelligent and spirited horses that all desire to possess. The true trainer of colts is gentle, loying, firm and thoughtful, and the young animals of his charge partake of the same qualities.

## JERSEY POINTS.

Uuless the brilliant prospects of this breed are to be wrecked, it is quite time to gé out of the follies as to whole colours and hues,
and to determine the position as to merit from produce, at least as much as from form. No doubt an experienced man can form a pretty suod general opinion from what a corv looks like, as to what her yieldandits quality
may be; but, when positive proof can bo obtained by testing comparative oxcellence in milk and butter, it does secin fallacious to remain contont with a pretty good general notion whore ono might have a cortainty. It is with no wish to disparage the efforts which Jorsey men have made and are making to improve their singularly graceful and serviceable cattle, that one says there may be too many of them at a show and in the country. Except for crossing with the Kerry, Jersoy bulls are not desirable neighbours. Their shape is enough to give a beof-brecder the nightmare, and their noise is the most doleful sound heard in the country.-Journal Royal Agricultural Socicty of England.

## REMEDY FOR HULLOW HURN.

The treatment required for the disease which produces the condition of the horns, known pupularly as "hollow hurn," is as follows: The most conspicious symptom is a general low fever, with heat or coldness, or both alternating, of the extromities, chiefly of the horns and ears. The membranes of the head are congested, inflamed, and there is often a discharge from the nose. The first treatment consists of a brisk cooling purgative, such as one pound of epsom salts, if the horns and ears are hot and the muzzle dry; if the horns are cold and the nose is moist, a quart of linseed oil should be given and turpentine should be freely rubbed about the roots of the horns and the ears. After the purgative, in either case, warm gruels of linseed or bran should be given, with a terspoonful of ginger, and the animal should be well nursed. A tarry stick should be stirred in the drinking water, or if it is not readily taken in this way a little tar should be rubbed on the tongue every day. $-N . Y$. Times.

## CONTROLLING THE HORSE.

The reins may guide the horse, the bit may inspire him by its careful manipulation, and the whip may urge him forward to greater ambition; but the human voice is more potent than all these agencies. Its assuring tones will more quickly dispel his fright; its severe reproaches will more effectually check his insubordination; its sharp, clear, clectric commands will more thoroughly arouse his ambition, and its gentle, kindly praises will more completely encourare the intelligent road loorse, than the united forces of the bit and reins and lash. No animal in domestic use more readily responds to the power of kindness than the road horse.

## HORSE'S TAIL OVER IREIVS.

I can toll your correspondent, W. H. B., of an improvement in his method of treating a horse which catches the line under his tail. Let him tie the cord to a portion of hair of the tail, and fasten it to the harress below, rather than to any part of the carriage. A suitable portion of hair on the under side of the tail is taken and tied into a loop so that a cord will hold fast. The cord being tied near its middle, the two parts aro put round the breaching, and the ends tied together so that it will not he fast to the breaching, but will leave a good deal of use of the tail. If the string is of the proper length-which a
trial will show-the arrangement will completoly provent that very annoying trick, and it is out of sight, and is not a serious inconvenienco to the horso.-Cor. Country Gentleman.

## SELLING YOUNG CALVES.

In most dairies a calf is valueless and is sold almost immediately after birth. Not only is this unwise and unprofitable, but entails on buyers the purchase of that which is unfit for food, to say nothing of the cruelty practised on the little creatures that are sent to market. They are killed by a slow process of torture, in order to render the flesh white, and the parties who handle the meat have no scruples regarding the safety and health of those whom they serve. Every cow that is slaughtered, if near calving, is unfit for fond, and the ombryos are skinned and the flesh sold all the same as those that have matured sufficiontly for birth. When it is considered that the prices obtained for such young calves are but trifles, it is a surprise that they are not kopt with their dams until old enough to make good marketable veal, as they grow rapidly and soon reach a fair size. Another point is that the milk from cows that have been so deprived of their young is ropy at first and unfit to be sold. In the south the people will not drink milk from cows until the calves are from six to eight weeks old, sometimes more, and they claim that the price of a good large calf more than pays for the milk it consumes.
When calves are taken away so young, it shows that the dairyman keeps a scrub bull, and such custom has done more to prevent the jmprovement or our dairy stork than any. thing else. Occasionally a female calf is spared for the dairy because the dam is a good milker, the breeder forgetting the presence of the scrub bull on his farm, and if the calf does not falfil expectations she is condemned as inferior, the bull, in the meantime, getting no blame whatever.

## FATTENING STEERS.

We frequently read of steers weighing any place from 3,500 pounds up to "nearly or quito 4,000 pounds." But the liberal prizes offered for heaviest steer, and the excellent opporiunity afforded for disposing of them, do not bring such animals to the fatrstock showa, If wo remember right there have been three different animals shown which weighed over 3,000 nounds, with 3,150 as the heaviest weight. It is safe to conclude that most of the published statements about monster steers are incorrect. Frequently they are based on estimates rather than tests on the scales.

Does it pay to fatten steers for market at less than two years old? Yearling steers weighing 1,600 pounds, or more, have been. shown. A good number of the yearlings have been well ripened. Some of them had evidently reached their best condition; a few had passed this point. But the question can not be regarded as conclusively settled that it is as profitable to market at under two years old as it is a year later. Possibly in the average simple modes of keeping steers in the west, three-Year-old steers may give as gond returns as those of younger age. We have cortainly reached a time when it is rarely profitable to keep a steer until he fs foup years old.-Breedopis Gazefte.

## SHEEP AND SWINE.

## WINTERING STOCK HOGS.

A vory important matter in wintering stock hogs is to have a proper pince for them to sleep. They want a dry place. Their shed should be well ventilated, yet so made as to give protection from rain nnd snow, and the cold blasts of wind. Their bed should never bo allowed. to ferment or get dusty. Small shoats, on lying down, will root their noses in the dust, and will soon breathe enough of it to give them the thumps, which is certain death to them. Plenty of old salt sprinkled in their bed is a nice thing to keep down the dust. It is true the winter season is over now. But let farmers remember and profit by the mistakes of last winter. A very good practical farmer told me that last fall ho had about thirty nice young hogs, all in good growing order. He left them out, exposed to the weather, without any kind, of shed to protect them. Through the fore part of the winter they seemed to do well enough. But finally they got sick-one or two, and now and then three or four at a time. They would stand around and wheeze and cough, and would soon die. All died except twelve. Now, is it zot evident that from being exposed to the severe storms and changes of the weather that they took culd, which settled on their lungs? Hogs that are left out without any shelter will pile up one on another. And when they get up from their nest those in the middle of the pile will come out smoking hot. Now these, in cold weather, must unavoidably cool off too quick, and consequently take cold. Hogs that are to be turned on pasture in the spring should be fed enough grain through the winter to keep them in a good growing condition. If they areallowed to get down very poor, it will take them a long time in the spring to right up. Thus a great part of the improvement that otherwise might be put on them is lost.
The profit of keeping hors over is derived principally from pasturing them through the summer. On good grass and clover they will thrive and grow without grain. Early spring pigs that are to be made into pork in the fall have to be fea almost entirely on grain. Salt and ashes mixed is a gocd thing for hogs. It should be placed where they can get at it when they want it. Never put salt in their feed or drink. Either late in the fall or early in the spring I shut up my young sows in a close pen, and nearly starve them for two or three days. Then I get a careful hand to spay them in the side. I seldom ever lose any. They get woll in a short time. Treated in this way they make nice hogs for fattening.
Will some farmers who understand raising hogs please write and give their views on the above subject?
D.

## SAGAOITY OF SHEPHERD DOGS.

Charles Hancock, the celebrated painter of animals, relates the following anecdote of some Scotch collie dogs:
I was once staying with Lord Kincaird, at his seat in Scotland, when tis lordship expressed a wish that I should see some of his prize sheep, which were then feeding, with some hutareds more, on the brow of a bill,
nearly three miles from the house Cnlling his slepherd ho kindly asked him to havo the prize sheep brought up as quickly as he could. The shepherd whistled, when a fino old sheopdog appeared boforo him, and, seated on his hind quarters, evidently awaited orders. What passed between the shopherd and the dog I know not, but the faithful creature manifestly understood his instructions.
"Do you believe that the dog will bring the sheep to us out of your large flock?" I asked.
"Wait awhile, and you will see," said his lordship.
The dog now darted off towards the sheop, at the same time giving a significant bark, which immediately called forth two younger sheep-dogs to join in the mission. Accustomed as I was to the remarkable sagacity of the collie dogs, I was amazed at what now took place. On one side of the hill was a river, on the other side a dense forest. One of the younger dogs, on arriving at the foot of the hill, turned to the left, while the other carted off to the right hand.' The former stationed himself between the sheep and the river, while the latter stood between the sheep and the forest. The old dog now darted into the middle of the flock, when the sheep scampered right and left, but were kept at bay by the two watchers. The old dog speedily singled out the particular sheep desired, and in a few minutes the three dogs were quietly driving them towards us.

## WHY SOWS DESTROY THEIR YOUNG.

A writer in the Homestead gives an article on this subject, in which he argues very conclusively that " costiveness and its accompanying evils are the main causes of sows destroying their young-and proper food is the preventive and cure." He says, and the fact is patent to thousands of pig raisers, that sows never eat their pigs when running at large, with plenty of green food, as in autumn, but with hardly any exceptions, sows littering early in the spring are troubled with costiveness, often very severely. This causes extreme restlessness, often almost frenzy, and the pains of labour increase it until they destroy their young or any living thing within their power.
"Green food is the cure." If sows are confined in pens at any season, and especially in early spring, they should have a daily supply of green food for some weeks before littering. Potatoes, sugar beets, carrots, parsnips and such like, are excellent-and a haif peck per day is amply sufficient. If no roots are to be had, sulphur-a tablespoonful two or three times a week-may bo given in their usual food, and charcoal is also beneficial. Sows should not be moved about from pen to pen at this time as it disturbs and irritates them -they should be put by themselves at least a month before littering, and used at all times with kindness and due attention to their comfort.

Corn and cob meal, or corn unground, is bad food alone for sows heavy with young. Sour milk, kitchen slop and vegetable food should be given with it, and for all swine it is to be preferred. In summer, with good clover pasture, pigs will do well without grain and every farmer should provide a proper pasture for his swine,

It has been stated that sows could be prevented from destroying thoir young by giving thom rum sufficient to mako them tipsy after litioring. The preventive of green food would bo far better for tho animal, as well as of permanent benefit. Somotimes sows refuse to own their young, netiug perfectly indifferent to their wolfaro. We have found this readily overcome by holding the sow, and allowing the pigs to suck once-after which she gave $n 0$ further trouble.

## SWINE BREEDING.

In our observation there has been more than the usual inquiry for good brood sows and superior boars this fall and winter. Wo find also the usual discussion as to the comparative merits of early or late pigs. Some good breeders arrange to have as many as possible of their sows drop their litters in the latter part of March or first of April. Others prefer to have the pigs, especially those from young sows, come in May. Personally, we do not approve of breeding young sows early. Better and stronger litters may be expected if the sows are, at the very least, a full year old when the pigs are dropped. In fact we grow more and more to believe in the superiority of mature breeding animals, both male and female. Breeding from young animals which have been "crowded" with stimulating food will probably tend to produce still earlier maturity, but at the expense of vitality, and often of size. There is greater apparent piofit in selling the sows and boars after using them one season, but those which prove themselves superior breeders should, in all ordinary cases, be kept for at least a second year. With mature sows, and with a good place for them and the young pigs, there are many advantages in having the litters dropped early; and especially if it is expected to make sales of the pigs for breeding purposes, the early pigs are much to be preferred. But for the average farmer, with his not overly good arrangements, we have little faith in profit being made from early spring or late fall pigs.-Brecder's Gazette, Clicago.

## SO-CALLED THUMPS IN SWINE.

Thumps is a name which we have seen applied to a variety of disease in swine. Thus, we have found, on opening pigs that were said to have died from "the thumps," that they died from pneumonia; in other cases we have found the term applied to quiasy, congestion of the lungs, and, in fact, to almost any form of disease in which the act of breathing is much accelerated. To use this term in the supposition that the ailment is similar to what is called thumps in the horse is wrong. In swine, the disease or diseases to which the term is applied generally proves fatal, whereas this is not the case in the horse. We are frequently asked to explain the causes of thumps in swinc, and to prescribe remedies for the same; but, when neither the cause nor the disease in all cases are the same, it is impossible to give a proper reply.-Breeder's Gazette, Chzago.

Sufrolk pigs fed with milk when firat weaned have frequenily been made to weigh 300 pounds at seven montis old. The milk should be mixed with bran and oatmeal, and thus fed till a suficient growth is attained to put on fat with commesl,

## BEES AND POULTRY.

## THE FIRST' "COMIN'G BEE."

The long, square, Dutch bees crossed with the long, slim, leather-coloured Italians are going to bring forth the first "coming bee," sure. There are two methods being worked out by which to produce the ideal bec. The one is long, persistent, and tiresome labour, together with patience and waiting, and its result actual improvement. The other method is one built up on an imaginary bottom. The first step of progress has been to represent an uncommonly common article in an uncommon way by giving it an uncommon name. This is a short cut-a quick way to arrive at the "coming bee." Upon receiving an advertisement of said bee, made bya cross of the " wide. brown, German becs" with the "long, slim, leather-coloured Italians" a novice would ordinarily receive the impression that the former race was imported from Germany and crossed with imported bees from Italy, never dreaming that his neighbour. just over the way, has the same kind of "wide, brown German" bees in box hives, known in carly days as the common black bee, and that the cross-the "coming bee"-was called in those days hybrids, the very ones we have been in the habit of pulling the heads off, and dropping them in the grass, for the sake of progression. Noted queen breeders have used them for many years to fertilize their lawns. With over fifteen years' experience in bee culture, and having spenissix or seven seasons in travelling, all the time handling black bees, we could never discover that there are two distinct races of black bees-a black, and a brown. We have observed that the black bees when full of honey and during a good honey flow have a brownish, distended appearance, and in all races the colour of the bee depends somewhat upon the temperature of the weather when they are hatched. The word "German" which is applied to the so-called brown race is a "hillynuton" name which will send them off at a dollar apiece. The long, slim, leather-coloured Italians come from the same bee-keepers in Italy, that the short, bunty ones do. We never had any bunty ones, and never sarw anyone who has ever seen anybody. who ever heard anybody say that they had sieen thembut very likeld they exist as a/separate race, for what would be the need off the name "long leather-coloured" if they were a myth.-Bee Keeper's Guide.

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E G G S I N \frac{1}{f I N T E R}
$$

The fact that eggs sually command, during the last six weeks, of the year, from forty to fifty cents a dozen, is goad eridence that, as a rule, hens do notilay at this season of the year. It being the moulting season with the old hens, but feri'eggs can be expected from them, and the pullets, most of them, are not old enough tolay; so with ordinary care fow eggs are got when they are most needed.

Those who best understand the business, manage to have their hens lay when eggs are the highest, and thus secure a large profit. This they accomplish by keeping hens but one year, and raising early chickens so as to got them to laying by the first oí October. When this is dope the chancess are farourable to
keep them laying most of the time until Fobruary; but, to do this, the lens must have good winter quarters, plenty of air, light, and sunshine, and yet warti enough to keep them comfortable both day and night.

Fresh enrth should be supplied in nbundance, and the food should be in great variety. Grain alons is not sufficient; but they need meat and vegetables, including moistened fine hay or cabbago leaves. In the coldest weather the water should bo warmed before being placed before the hens. Ground oyster shells should always bo kept where the hens can get them, and wood ashes, with charcoal, should be in one corner of the house.
There is no animal kept on the farm that feels neglect so quick as a laying hen. Sometimes a neglect of a few days will stop a hen from laying several weeks. There is so great a difference between the price of eggs in December and in March, that it pays to make an effort to get eggs in the first part of winter.
It costs about the same to keep a hen a year that lays most of her eggs when they are the cheapest, as it does when they are the highest price; but there is a great difference in the worth of the eggs. Six dozen of eggs, at forty cents per dozen, would be $\$ 2.40$, while six dozen, at fifteen cents, would be but ninety cents-a difference of $\$ 1.50$, which would make a good year's profit. Yet the price of eggs is frequently more than forty cents in December, and less than fifteen cents in March.
Those who are the most successful in the production of eggs for profit, make it one of their principal points to have their hens lay the most when eggs are the highest, thus securing a very large profit on what they feed out.-Mfass. Ploughman.

## FEEDING BEES IN WINTER.

A correspondent in the Germantown Telegraph thus describes his method of feeding bees in winter:
In the first place let me sny that I would prepare the feed in the shape of a syrup, thus: Take of pure clean water two pounds to four pounds of sugar ; A coffee or extra $C$ is best. Bring the water to a boiling heat and then add the sugar; stir well nntil it again boils, and skim off all impurities; then let it cool and fill up glass tumblers and tie cotton cloth over each, and turn them upside down over holes in the top of the hives, if of the old-fashioned box or gum log, and you will have the satisfaction of seeing the tumblers soon emptied and stored in the brood combs. If you are using a good movable frame hive you can feed your syrup in the top of it in the following wey : Take some old bits of combs and lay in the surplus chambers, and pour the syrup over them, and the bees will take it "all down. Feed as fasit as they empty the glasses or combs referred to. We should feed all weak culonies late in an evening, which will prevent robbing in a great degree. If you use glass tumblers to feed from, I would recommend boxes to be turned over so as to keep robber bees out.

## SHIPPING QUEENS.

It will be remembered that the shipping of queeñ bees by mail was prohibited by the pos-
was allowed, to tho great advantage of beekeepers. Thousands of queeus are now yearly sent by mail, and at very small cost. A queen may be sent from Maino to California for two cents. In granting the request, two conditions were required. First, the food must be candy, or some subtance that could not possibly soil the mail, and second, the cages should bo so made that no mail agent could be stung.

The last requisite is easily met in tho donble faced cages now universally used. The formor was found more difficult. Candy is so dry that, if the bees are sent far, they are apt to dio. Small tin phials of water have been added. with is very small hole from which the bees can sip. This did not violate the spirit of the law, as there were but a few drops of water in the phial, and this could not leek out of the small hole. But this n.ethod was not wholly satisfactory. Too often the queens died, if sent long distances. Within the last year a food has been made that is every way satisfactury. Granulated sugar is covered with extracted honey and, after draining for two days, the sugar is packed into a hole in the cage. This does not soil the bees, is moist and serves for the bees for many days, so that often, after a long journey by mail, there will not le a single worker bee dead in the cage.

## ARE POULITRY PROFITABLE?

Farmers and others who keep poultry on a limited scale want to know whether it is profitable. To a large class of rural residents there is very little doubt that it does not pay to the extent that it might be made to do. To many the keeping of poultry is merely a matter of convenience, instead of a source of revenue, and many times the convenience is an inconvenience, for when eggs are wanted they seem to be scarce. In winter, especially, they are very scarce, as the rule. To obtain eggs plentifully in winter we must obtain and prepare the stuck, and bring them into laying condition. Hens will not lay unless kept in good order any more than a cors will give milk without suitable food and care. They should not be too fat, but active; combs bright red, eyes sparkling; feathers close and glossy; in short their whole appearance should bs lively and healthy. These essentials are best found in young stock. I imagine that the matter of what particular breed we keep has less to do with the question than the factof care, if they are hardy ind healthy. As stated above, the secret of winter laying lies in getting hens up in. good condition first and then caring for them properly.

Novejiber and December, as far as fresh eggs are concerned, might be terned the barren months. If the early hatohed pullets have been well fed and taken care of during the preceding months they will be ready to fill this vacuum. It is during this change from warm is cold that the fowls are so sorely tried. Fowls require substances containing lime. If fed on grains that contain it its absence in a natural form is not felt quite so niuch. Corn produces fat, while other grains go to make substances just as essential in another direetion. Foods that supply albumert, as well as sulphurous extracts, are necessary for the perfection of the egg. Laying hens resort to lime and bones. Nature feels a need of these, as the drain of egg-production éxhausts the

## VETERINARY DEPARTMENT.

We will ansicer in ehts dolumn any questhons retating to horiss and cotilio which may bo sent we.

## treathent of pleuro-pnelimonla.

MI. J.-This disease appenre under two forms, the contagious and the sporadic form. If the former your best way is to call the attention of the authorities to the fact that such a disease exists among your stock, and protect your animals and those of your neighbours from this fatal disease. If on the contrary you have a spasmodic case of acute pleuro-pneumonia your treatment must bo according to the stage of the discase. S dative at first in the chape of tincture of aconite and veratrum veride, followed later on by stimulants, as carbonate of ammonia, camplior tea and diunctics. It is more important for you to decide as to the true nature of the disease than to attempt to cure it. The services of a veterinarian must be obtained, as he will be then able to give you advice as to what to do. Contagious pleuro-pneumonia may be cured, but there is great danger of its affecting other cattle, and so-called recovered cases may become as dangerous as recent cases. The best way to get rid of them is to get rid of the diseased animal by having him destroyed, and thus resnove all chances of infection.

## APOPLETS.

W. W.-What is the cause of the paralysis to mhich jour coms succumb is difficult to say, as you do not gire the slightest point on the subject. Ignorant of the cause, to give a remedy becomes a difficult task. Supposing, howerer, that this is due to a peculiar condifion of the stromach or the borels, the oniy treatment which can be recommended is as soon as the snimal is found down and unable to get up to give a good dose of physic in the shape of Epsom or Glauber's salts one pound, and to apply orer the loins blankets wet with warm Frater. As soon as the cathartic will operaie it is probable that the com will be able to get up. Tonics in the shape of capsicum, gentian or ginger mixed with nervous stimulents, such as nux romica, will complete the care.

## CPIB-DITING.

D. W. D.-Teicrinarians scem to disagree When the question is put to them whether crib-bition is 2 discasc or merely a bad habit. -By some it is stated that chronic discase of the stomach, an alceration of the mucous membrane, fill gire rise to it, while many others say it is due to a bad habit that an snimal Wifl contract by secing snother do it, and again, for somo outer reason that cannot be accounted for. Many means hare been recommended, and by their uso sometimes minnals bare been permanently relieved. The best may that has been found useful in our hends has been to regulate the diet of the patient by giving him food of casy digestion, and bstaking array from him anything to Which he could pat his teeth. Placing him in a box-stall, sod feeding him from the ground, prerents him irom assuming the position necessary for cribting, and iny this way he will often looe and forget the habit. The treatment has, howerer, to be followed for a lang time bcfore an animal cain be considcred $2 s$ cared.

HARD FEET.
E. E. Q-The fact of your horse's foot becoming bard and dry from standing in tho stabie is mothing strange, as long stabulation is cone of the causen of this condition of the feet It therciore becomes evident that your first procaution is not to allow jour horses to remajnin the stablo without proper ase Somotimes, zoworer, fect aro naturally hand and diry in their nature its spplication of external mead becomes then a necessits.

Suaking the feot for a few hours at a time, the application of wet swaths or that of the various hoof ointments will also give relief. If you take cqual parts of raw linsecd oil and liquid tar, mixing them together by warming on a low fire and applying some of it twice a week with a paint-brush over the walls and soles of the feet it will be found that the hoof will become softer and resume its normal elasticity.

## SKETCHES OF CANADIAN WILD BIRDS.

## By W. L. Kells, Listowel, Ont.

the black and yediow warbier.
The habits and habitation of this species are much similar to that of the yellow warbler, but its size is somewhat larger. Its colour is a beautiful yeliow, interspersed with blach spots. It builds a warm, compact nest in the fork of a millow, or other small tree that grows in low places. The eggs-four to the set-are whitish, mottled tonards the large end with pale reddish spots.

THE BLACK AND WHITE CHEEPER.
This species is four inches in length. The plumage on the back and wings is light black. crossed by bars of white, the lower parts are white, and the crown of the head has a red mark. Both birds are alike in colour. It feeds on insects, which it gleans partly among the green leares, and partly from the trunks of trees, which it climbs up and around by a creeping motion. Its song is a repetition of a fer simple notes. It ranges the margins of moods bordering on swamps, where there is much fallen timber, and the ricinity of water courses where there is low brushrood. Its nest is placed in a bank formed by a turnedup tree, where it is conccaled by dry leares, moss, and the folinge of small twigs. The nest itself is formed of moss, fibres of bark, fine dry grass and hair. The eggs-four to the set-are white, dotted with bran-coloured spots.

## THE BLACK-BACKED WAPBLER

The plumage of both sexes of this species is alike, being black on the upper pirts and white bencath. Its length is betreen four and fire inches. it frequents borders of roods, and partially cleared places near the margins of wetcr cources, where there is thick underwood and creepirg vines, and the land is high and rolling. It forms its nest of mool and fibrous matter, in a cluster of vines and among thick foliage, and lays tro eggs.

## the irnens

This senus of small but very interesting birds, of which there are some five or six species regular visitants oi Canada, seem also to be allied to tho warblers in the great chain of ornithology. Two species, riz, the house Kren, and rood or winicr hren, anc quito common in the central aurts of Ontario during the summer monthis. In outwand appearance these species closely resemble cach other, but in habits they differ mach. Another spe: cies-the long-billed marsh wren-is found only in such marshy plices as the St. Clair Flsts. Of the nesting or general habits of the other species I hare no personal knomledga.

## TES RUBY-CROWNED WREF:

This prothy birdi is remarkable for the ruby,
or scarlet patch on the crown of the head. It appears to breed in moro northern latitudes, and passes through this Province in its spring and fall migrations. Its song is very pleasant. It feeds on insects and larve.

## the golden-crested wren.

This species, though about the same size and general colour of the ruby-crowned, is distinguished from it by a crest of orange-red, encircled by yellow. In other respects its habits seem? to be similar.
the long-billed marsa wren.
This species is five and a half inches long. Its colour is dull reddish brown above; under parts, and a mark over the eye, white. It dwells among the fags and other .ank vegetation growing in marshes and other inlets to lakes. Here among the thick flags it builds a downy nest, mostly of cat-tail down and other fine materials. In this are deposited some six eggs of a deep chocalate-colour. The nest is generally only a few inches above the water-mark. It feeds on such insects as it finds in such places, , and its periods of migration are the months of May and September.

## OXCUSE THE DOG.

An agent for the sale of some houschold article attempted to mount the steps of a house recently, but the dor came around the corner and took a balf yard of cloth from the back of his coat. The man was sliding out, when the omner of the house came and asked:
"Did dose dog bide you?"
"He didn't bite me, but he ruined my coat," was the reply.
"My good friend, oxcuse dose dog if lis didn't bide jou. He is a joung don now, but by unt by be shall take hold of some agents ant cat der bones right out of dem. He bides a coat now, but he shall soon do petter."

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Bent Assortad Etock in the City．
Wo buy closcit than any Boot and Shoo shop in the city；wo koop better goods than ans 0 Do in the city，and sell cheaper． Givo ns a cell beloro going olsewbero，zna conrinco jourscires of the fect that

If jox only oxco bat bay to try，
Yoa will otror alter try to bug．
No tronble to shor goods．We dolight so ahow our stock，whother you intend to parchaso or not．Xoa rill almajs find yat Holito and obliging．
Be suro and como oarly，and socure jorir sharo it the great bargains offered．

## 500 CASES NEW GOODS



GONLEY \＆ CORMICAA，

579 MAIN STREET

## GOOD PAY TO AGENTS.

Agonto mantod in ovory villago, town and townelitp, to mako a mente. Work to commowev at once. Fur inll jarticulara ad mente.
O. BLAOKERE ROBITSOR,

S Jordat Btreet, Toronto.
Publisher.

##  <br> TORONTO, FEBRUARY 1st, 1883.

## $A N A P O L O G Y$

is duo our readers for the late appearance of the Fobxuary Rusal Caradias. Tho pressure of Government work on the presses is the cause of the delay. The Mrarch number will bo publushed about the 10th prox, and we hope to send forth succecding issues on the first of evory month thereafter.

THis demand for the January number of the Rumal Caxadian far exceeded expectation. The impression printed off fell very much short of what was required. This will explain to thoso readers who failed to get a ropy of that issue, why they have beon disappointed. Acrangements have becn mado for printing a much larger impression of succeeding numbers, so that a similar disappointment may not bo experienced. Incroase in circulation is a gratifying proof that farmero largely apprecriate a serial devoted to their interesta. The bnorledge that its merits are recugnized will atimulate us to make the Reral Canamiax still more morthy of the favour with which it is roceived.

## PATIENT EXPERIMENTERS.

The Germans are patient expenmenters. A recent roport gires the result of one of their experiments to show the fertilizing value of clover. An acre of clover sod was tested to the depth of ten inches, and the rroight of stubble and ronts was found to be 8,921 pounds. Further, it kas iound that this weight of atuble snd roots contained 101 pounds of nitrogen, besides a quantity of potash and phosphoric acid. Doubtless the clover was a strong and vigorous crop; but the important fact is that it is rich in nitrogen, and therefore raluable for fertiluing purposes. It is, indeed, one of the most raluable of all fertilizers for wheat, for analysis shows that a wheat crop yiclding trenty-fire bushels contains about sixty pounds of nitrogen in the stem and gram. Tho knorledge of those tro facts-of the large proportion of nitrogen in clover and in wheat-mabies it clearthat soil fertilized rith clover may reasonably be expected to give a good yield of wheat. There is nothing of chance in farming ; cause and effect are nover dirorcod. And under. atanding the nature and operations of cause and effect, as ro mas by tho studies of patient and intelligent oxperimenters, the business of farming may bo mado as safo ard profitablo as the elements will allow. The weather is almost the enly causo not subjoct to the control by the ingenuity oi man. It will alrays be a difficult matter to protect crops againat the riolence of nforme or tho extremes of heat and cold; but tho injury dono by these agencies is after all not a scrinus inatter. The large majority of conditions aro suscoptiblo oi being modified favourably; henco the importanco of experiment and obserration, and tho application of knowledge so ganned to practical ends Tho knowlodge of any number of facts in agriculturo is only usciul to the extent to which it is applied. Niot ore farmer in a hundred thoisand has tho patienco to seoertain the reight of stubblo and roots in an acco of clovor and md, nor the slall to analyzo its component parts ; but the one who has is a benciactor of his clases and of the norld. The ralue of underdraining was first proven by experiment.

## OUR DAIRY INTERESTS

Hitherto the dairy interests of Ontario haro bean confined largely to checse-making, and Ontario chocso hes a reputation second to noother in foncigh markets. This is duo in a great measure to the factory agatom, under which erery improrement in utenvils and in proceases has becn spoedily ailopted. Tho gain to tho country is cortainly large-not lese than $\& 4,000,000$ a joers, send pereibly a million moro.
Now this is a revult that we could nover hopo to attain ander tho old prirato dairy system. Wo could zerer, onder that ojxtem, hopo to produce outhor the
quantity or the quality, and without quality wo could nover cstablish a footing in foreign markets. Bosides, if evory farmer wns his own cheese-maker thore would bo a groat wasto of timo and applinnces. The factory system possuses tho great advantago of economy of production.

In this viow of the subject wo look with confidenco to the success of the mensure passed in the recent session of the Legislature for extablishing public creamorics. If proporly managed theso creameries cannot faii to teach useful lossuns in the art of butter-making. Being undor the control of the Government all uscful information connected with their werking will bo officially publishod, and overy essential data will bo given as to cost of manufacture and value of product. Besides, thoy rill be schools whero whoever pleases may gain practical knomledge at the tands of competent instructors.
The cheeso factory system is confined mainly to a dozen countios in the Province; consequently thero is amplo room for the creamery system without any fear of ono coni icting with the other. There is no fear of the cheeso interest suffering by a new impetus being given to the butter interest. Tho markets of England will tako all the surplus tro can ship there, providing the quality is satisfactory ; and as lasting profits in any line of business depend on making only first-class goods the dairymen of Ontano know exactly what is before them.

Wo aro quito sanguine of secing the ralue of our butter product doubled wefore the close of this decade. The Hon. Harris Lemis, of Ner York State, is still more confident on this subject, for in an addreas to tho Eastern Ontario Dairymen's Association he said: "I presume that within tro or threo years you will take aboat tho earao posidion in regard to butter that jou now do in checese, for I understand that your Gorernment bas decided to ostablish throe crcimerica for tho manufacture of butier, and I bare no donbt that thoy will raise tho eharecter of tha batter 50u meke resy mach, and that all the Prorinco will fcel. Their infuence. They will. I sm sare, add to the value of tho butter you mate at loast $\$ 1$. 000.000 and possibly two or 2 breo millions of dollars. I admite the poskion your. Governmont has taked vers mach in this matter."
This stateraent by such an authority as Mr. Lowis is very encouraging. Wo trust, however, that the Government rill take every procaution to establish the creameries on a woll matured plan, and that the service of thoroughly competent persons will be secured as managers.

## SEED CATALOGUES.

Whliak Remie's Seed Cataloger for 1883.Whether Oscar Wilde's risit to this continent has been a help or a hindrance to sesthetic culture, might bo a fit subject for granges to discuzs; but thero is no doubt that our loading Canadian seedsmen aro vicing with esch other as to who shall issue the most attractire seed cataloguce Happily, we aro not called upon to arard a promium for the best spocimen of catalogues. Mr. Rennie's annual for 1883 is in adrance of previous issuce. The design for the corer is neat, artistic, and distinct. The contents are saluable to tho farmer and gardener, and espocially to tho increasing numbers Tho engago in amatcur gardening. All rill find boyond a correct classification of seods and plants much usefal information. The catalogue mill be kept hy many for referonce after its immedinto object has been sorvod.
Fice's Fioral Guide, 1883, rot only containa a comprehensivo list of plants, scods and flowers, bat interesting and accurato doscriptions of a great number, not onls of nex and nurer varictics, but of those in which culturators generally delight. The Floral Guide is profusely illustratod by most delicato, besutiful and accurato engrari: gs, while the colourad prints aro of furpassong croollenco and beanty. If the posscssor of a cops of this crialogue wero to loare tho payo containing the frontispioco open in tho summer scason mithin rasch of an zpiss, boes rould cluster around it, so truo to naturo is the beaquet fith which tho rosder in presertod.
J. A. Enterti's, Watsontom, Ph, Anxers Caislooce or O. E. Sxaps is admirablo in got-up and conciso in contents. Tho design of tho corer is ariginal and otriking.
Recrived - Tovedr's Iludrated Catalognc (Luttlo Silver, N. J.) ; Grogorg's drinual Rlusuraicod Redail Catalogice (Minablahead, Mi2si); Jarnos 3 II. Thorburn \& Co's Annxal Descrisfine Catalogue of Sceds (16 John

## APPRECIATIVE WORDS.

From a number of kindily notices which havo appeared in our exchanges, relative to the enlargement of the Rural Canauias, wo select tho following:
bnlazoed and improvid.
Fanser and Fruit Growers:-Tho Rural Oaxadian comes to us this year enlarged to tiventy-four pages, and otherwise improved. It is among the best of our oxchanges, and has practical articles for farmers on this side of the lakes as well as those in Oanada.

## one of tur best or tire kind.

Conoung World, in noticing the January Rumar Canadiax, says: " We aro much pleased to observo the great success with which the publisher of this agricultural monthly is meeting in giving tho farmors and others interestod a journal well worthy of their patronage. Their paper is ono of the best of tho kind on this continent-every department being ably edited and well supplied with information of the most valuable kind. Tho family department is also most excellont. No farmer should be without this jounal ; and its price certainls places it rithin the reach of all."

## an agricultural authontty

Bobcaygeon Isdepempset is pleased to atylo the Reral Caradus the Agricultural authnrity of the Dominion.
" so suy we alf."
Brockville Recorder: "An excellent paper."
Wo still want agents to pushour circulation. Largo commissions aro paid.

## PROTECTING THE OUTLET OF DRAINS.

Onc. of the greatest annoyances in underdraining is the trouble arising froza tho outlet bocoming cholsed or filled up by the tramplung of animals, the action of frost or oven of water at fimo of freshets. This troublo is quite successfully overcome, says a correspondont in the Agriculturist, by an arrangement consisting of a plank ten to twelvo inches in fidth and fro or sir feet in length, with a notch cut in one sido near tho centre. This plank is set up on edgo at the outlet of the drain with the notch directly orer tho end of tho tile, and is held in position by aeveral stakes on tho outsido with carth or stone thromn against the opposite side. The aboro plan is recommended for light, sandy soils. The folloring is advised for heary clay lands. It consists of two logs eight or fen inches in diametcr and from threo to ten feot in length, placed parallel with the drain and about six inches apart; the whole is corered with plank trenty inches long, laid crosswise. Flat stones mill answer in placo of tho plank The whole is corered with aarth at ? least eighteen inches in depth.

## NOT MEASURED DY MONEY.

Mr. Robert K. Tomlinson has discussed most intercstingly in tho Philadelphia Press the trito question, "Does farming pay?" (about which there is no question) calling up from real life illustratiro oxamples such as, harpily, aro within the knoriedgo of all observcrs. Wo mako room fer some of his thenghtiul and sugcotive points, which are well stated. The definition of "success" is a better one than superficial persons aro sblo to gire, and no cespocially approro tho passing tribute to tho wives and mothers of tho farm: "I havo in my mind's cye 2 number of man (I uso tho term in a connubial zense, for if ever thero ras a pursuit in तhich the rifa is troly tho better half it is in farmingl who started in egricultural pursuit with only a for handrod or a thousand or tro of dollara sarod, it many bo, from thoir rages or the frait of a small inheritanco. In many cascs this was beacoly enrrot. $t 0$ slock a farm and pay the usual ono-hind purchaso monos. But under the doablo spur of loro of owncrahip and nocossity of mooting their engeso ments, they bent orary energy to froc therasclres from debt, and mado their homestead ontirely their orn."
Brought op in tho habit of atrict 000 nomy , their children shared in tho hardahip* of adrersity, as thes aftcrwards atherod in tho brightoning prospocta of prosparity. In this storn bat bopaful alragolo with the forco of circumstances, tho parcote davaloped in mind and charactor. and fillod thair pleoo anong tho most ascinul and hozoured members of socioty ; while tho childran, thanks to izair earis training, to free gehoolz and an aducatiog prose, becam fitiad for ibst
higher struggle which increasing civilization demands. Who shall say that theso mon and women, although they may have amassed only a fow thousand dullars, have not, in the highest sonse of the'term, mado farming pay and lifo a success?
"And atil more-than for the individuals, for our country havo their lives been a grand success. The verse of the English peet is unfortunately too trite to quote, but true it is that intelligent, independent farming communitics should be the pride, as they aro the power and eafoty of $\&$ country. And ospecially will a largo class, such as I have described, who by their birth, their lives, and their fortunes are identified with both the labour and capital of the country, do much to counteract the baleful offects of vast wealth and political power upon ropublican institutions."
Such suggestivo paragraphs as these open a wido fiold for reflection on the conditions and influence of suocess rorth atriving for, and which is not to bo measured by real estate standards or market estimates. "Man shall not live by bread alone."

## FORESIGHT IN FARMING.

Every farmer should have a memorandum-book in his pocket, in which should bo jotted down certain items of labour, whenever he may think about them. Then, when he may bo hesitating as to what he or his employés can do advantageously during some pleasant day, the record of items will not fail to render him valusble aid. The farmer who does not tako such thought for the future and plan oporations for wecks and months, and sometimes for years ahead, will al ways be grumbling that his work is behind its appropriate scason. Let me illustrate by experiences from real life.
A ncar neighbour mas almays at the tail end of tho rorolving seasons. During winter ho would go several times with tro horsesand sleigh more than fire miles to the grocery store to make a for purchases ; and perhaps ho would take two or threo bagfuls of grain to mill. But, in apring, when tho wheeling became about as heary as possiblo, he could be seen dragging a heavy load of grain to mill to be ground for feed. Well, rhen the sleighing mas excellent his grain was not threshed. By being behind, ho sustained losses in several rays. Rats and mice destrojed bushels of his grain. His domestic animals suffered and grow poor for lack of the food and comfort rhich thoy should have receired from the atraw. If his grain hsd been threshed at the proper time a team would hare been able to dran fifty bushels when the sleighing ras fine, with less fatigue than thoy could haul ten bushels over muddy rosds.
Another neighbour had commenced ploughing, but soon learnod that the old stub of a plough-point could not be mano to enter tho hard places in his field, so ho hurriod off to get a notr one. During the winter he had boen to tho city soveral tirnes, when ho could hare punchasod the share, and thus sared half a day, and ninety-firo ocnts for his farco on tho cars. Tro reaks aftor his grass mas fit to cut he took out his machine, but beforo ho could start it ho ras obliged to go to the city to procuro a new knifo for the cutterbar, which required enother half day and ninetr-iro ocnta, besides other losses. By being "a day behind" be failod to get his hay ready for tho barn in timo to aroid damajo incident to a dronching rain. Rain continued, and the roather concinued lowering and unfarourable, until his crop of hay nas renderod al most northless for fodder. If ho had not been bohind hand that one day, which was spent in fitting up hes mowor, every poind of hay could haro been socured in prime condition. The loss in the ralue of his hay by boing damaged by a long rain amounted to more than forty dellare
Whom tho rerasel soedtinuo had almost passod neigh bour Tandy roko up to a senso of the propricts of soring millot on a fer acros So ho startod for tho cits to purchass eood. Bat juat beforo it was reccired zit his station, a long period of wot routher sot in, Fhich rendered it nocossary to dofer soring watil the latter part of Mixy. Sowing lato immodistoly after a long peried of rot woathes, which was succooded by a droath, was the causo of a light crop The roader can percairo, at a glance, how much one day in tho wirter would hare facilitatod tho inroing operations of that lagsurd farmer, and how many dollara nould haro boen grised by way of a larger crop, if tho sood had. been purchised and bron soedy for the anil as soon its the
ground vas propared. "Tako timo by tho hair,"said Kossuth. "Furecast with care," siy we all; remombering that the best returns are to thoso who keep a a littlo in advance of the most appropriate period to plough, sow, cultivato and morr.

## LOVE LIGHTENS LABOUR.

A good rifo roso from her bed one morn, And thongltt with a nervous dread
Of the piles of clothes to bo washed, and moro Than a dozon months to bo fed.
Thero wero meals to bo got for the men in tho fold, And tho children to fix away
To school, and tho milk to bo skimmod and chumed; And all to bo done that day.
It had rained in tho night, and all tho rood Was wet as it could be;
And thero wero puddings and pies to bato,
And a loal of cako for tea.
The day wiss hot, and her aching head
Throboed wearily as sho said-
"If maddens bat knew what good wives know. They roold bo in no harry to wed."
"Jemnio, what do you think I told Ben Brown?" Called tho farmer from the well;
And a flash crept up his bronzed brow,
And his oye half bashfully fell;
"It was this," ho said, coming near, He smiled, and stooping domn.
Figsed hor cheek-" 'tras this, that you were the oest And drarest avife in town I'

The farmer went back to the field, and his wifo In a smiling and abeont ray,
Sang suatches of tonder littlo soug
Sho'd not sang for many a day.
And the pain in her head was gone, and the elothes Where white as fosm of the sea
Her broad was light, and her buster was . $\quad$ weoh, And golden as it could be.
"Just think," the children all called in a broath - Tom Wood has ran off to scal

Ho monda't, I hnow, if he only had
As happy a homo as me."
The night came down, and the good wife smiled To berself, as sho softly said,
'Tis not strange that maids till love-
'Tis not strange that maids will wed!'


## FOR LOVE'S SARE

Sometimes Inm tempted to murmar That life is fitting amay, Sith only a round of trifles Filling esch busy day-
Dusting tho nooks and corners, 35aking tho house look fair and patiently taking on mo Tho barden of moman's caro.

## Comiorting childish sorrors

 And charming tho childish heart Vith tho simplo tong and stors Sottiog tivo dear homo tablo And clasring tho meal sira and going on littlo errands In tho trilighe of tho disOno dey is Jast lino another ! Serring and piocing rell go nestig that trowsers. Eo neatiy thet nono can bein Ah! tho scamp side of lifc Is kepl out of stigh by tho mest Of many a mother and rila.

And oft when I am ready to marmar That timo is flitling amay
With tho salt-samo round of datios Filling alech busy day,
is comos to my spirit smootly,
With a grico of a thoaght divino: - Ton wre liring and toiling for loro's sate. And tho loriag should noter repino.

- Fou are guiding the listlo footstepr In tho way that they ought to walk.
Fou are dropping a word for Josus In tho midat of your houschold telk; tiving your lifo for lovo's sake, Till tho homety cares gro And sacred tho soll-denial
Thast is lailat tho Jiastar's leat." -Selecter.


## FUNERALS IN THE TINE OF CHRIST:

The touchiog Gospel zceount of the faveral procession that woend out of the grate of Nain, -probably domn the steep road which pow jeads topard the zocient sepelchral cares west of the rillare-2s oar Lord and His disciples Carre gigh, gires us probably the moce familiar idea of the ordinary modenfoommitting the dead to their "long homes"
 sp 2scient cormsentary of the Jews, which expreiax, itan, as

how easy for any one, much more the Lord, her Maker to recognize the widow, about in hide away torever from her eyes an only son. Behind the bier followed "much people of the city," and last of all the hired mourners end the musiciaus, with their distractiog and discordant wailing and pifi弓g. According to prevailing custom, our Lord and His coripenions should have joined the procession, and wep with them who wept, or shared in beating the burden of the open bier on which lay the young man, "the only son of his mother, and she was a widow." The apostle pauses in his record of this glorious miracle to emphasize the Saviours compassion for this bereaved rother, whom he must comfor with a gentle "Weep not," though in 2 moment more F at that moment deve son alive in her arms. May He not rows of that Virgin Mother for the death of he? ouly Son, o which Simeon has lestified, saying, "Yea, a word shall micect through thy own soul also ?
pierce (
It was contrary to the law that a high priest should attend the funeral, or observe any of the customary rites of mourn ing for any relative, not even for his father or his mother the priest might be "defiled" for his mother, father, son daughter, brother, and unmarried sister, but for no other re lalion in life. (Levit. xxi. 1-4, 10, 11.)
In the time of Chist it was the custom from the moment the body was carried out of the bouse, to reverse all chairs add couches, or seats of whatever sort. The mourners sat on the floor, except on the Sabbath and on one hour of the Fiday, the day of preparation, and on some feast-days in which "mourning" was prohibited. On the return of the family from the burial with their friends, they nere served by their neighbours with a symbolical refreshment in earth enware, consisting of bread, hard-boiled eggs, and lentils The friends and funeral guests, however, partook of a gen erous meal, but at which the supply of wine was limited to ten cups. These "cups" may have beeg 2 selic of the ancient cas:om referred to in Jeremiah: "Neither shall men give them" (the mourners) "the cup of consolation for their father or for their mother" (xvi. 6, 7). An allusion to foneral bazquets is supposed to be found in the circumstance after Abner's death, as recorded in this text: " When all the people came to cause David to eat meat white it was day, David sware, saying, so do God to me, and more also if I taste bread, or aught else, till the sua be down "(II Sam. iii. 35); and Jeremy, in his Epistle, speaks of the priests in the temples of idols, who "roar and cry before their gods, as men do at the feast when one is dead. $\because$ (Bar vi. 32.)

With the retam from the grave began the formal moura ing, when the passionate expressions of grief, loud and de monstrative, belore the bunal, were, if possible, recoonbled and intensified. The prescribed season for deep moarning mas seven days, the first three of these oeing those of "weep ing," the others those of " lamentation." These being fal filled, there followed a lighter mourning of thirts days or more, according to the nature of the bereavement. Under the Rabbis, children mourned for their paren:s a whole yeas: The anniversary of the death of a relative was also to be
 ( aO , howerer, inlercessory in its charactez) was to be offered. -Froms Mrs. Palmer's " 'Tome Lif in ethe Bible."

## TIGHT LACING.

Mr. Richard A. Proctor, the well-known lecturer on astronomy, once tried the experiment of nearing corset, and thus describes the result: "When the subject of corset mearing mas under discassion in the pages of the "English Mechanic." I was struck," he szys, "rith the ap pareat weight of evidence in favour of tight laciog. I was in paticular strack by the cridence of some as :o its use in reducing corpulence. I w2s corpulent. I was disposed, 25 I am stiil, to take 20 inicrest in scientific cxperimeat. I thought I would give this matler 2 fair trial. I read all the instructions, carcfully followed them, and varied the time of appiying pressare with that pericetly stiff bask' about which coriespondents mere so enthusiastic. I mas fooliah enoagh to try the the thing for 2 matter of foar wreeks. Then I laughed at myself as 2 hopeless idiot, and determined to give up the attempt to reduce by aftitian mean that superabundance of fat on which oaly starration and mech exercise, or the air of Anderica, has crer bad zany real redacing infuence. But I was reckoning withert my hostAs the Chinese lady suffers I am told, when her feet biodings are taken ofi, and 25 the fat-beaded baby howls when his bead-bozeds are remored. so for a while was it with me I found myself manifestiy better in stays. I hagbed at myself no longer. I was too angry with myseif to langin. I Foald $2 s$ s 000 have condemaed misself to usiog crachen all the time 25 to wearing $2=$ ays 2 busk. But for may one month of folly, I hed to endare three months of discomifort. At the cnd of aboat that time I was my 0кп man agin."

RECENTLY, at the Taillerics, a printiog machioc was set-in motion by a solat apparatus, and several thomand copics of the "Soliel Joaroal" were streck off.
A widow in New Oriears has in ber possession the original dran of the Constitation of the Confederate States for the modest sum of $\$ \$ 0,00$
Ex-Secretary Blalisi is said to be mritigg a political histors, in tro rolemes, noder the zille of "Twenty Years

Tus Conacil of the British Aspociation have decidod that the decision to meet at Montreal next gear was legailly obtained, and does sot contrarene the rales of the hnociation.
It fill,
bowerer, take the rencral scosc of the meabers upord It Fill, howeref, take the gcacrai scas
itse propriety of meting in Canada.
Johs Joves, 2 rich tailor of Lopdion, died zetej, and leff to the mation 2 rers larre and conily collociron of oil asd practralour paistingr, eramely, orembich cold and wilver objects, rusaitare, sic, printed books, apd zilver waik a

## THE HOMESTEAD-ITS ARRANGE. MENTS AND SURROUNDINGS.

In the published roport of the Agricultural and Arts Assuciation for the past year, we find an excellent japer on the abure subject, by Mr. David Nicul, of Catarayui, Out, frum which we make the fulluwing extracts. The illustrations explain themselves:-

## SITE OF DTVELLING.

On ordinary sized farms, as they are generally laid out in Ontario, the homestead has to bo erected somewhat convenient to tho public highway, which sometimes leaves little choice for the selection of a site; and if the sunny side of a hill which is most to be desired is not availatle, a slight elevation can generally be had. But if the dwelling-house must be crected on ground which is nearly lovel, the earth dug out from the cellar can be made to form a gentle slope from the house everyway.

Sometimes dwellings are built on lofty situations under the flattering circumstances of a clear atmosphere and a ride prospect, but it is often at the sacrifice of shade and shelter, which are needed in unfavourable weather. The cumforts of a habitation should not be sacrificed for the pleasures of looking out of the windows upon distant landscapes.
Another very commun mistake is made in building too near the public road; a house crowding upun the highway loses all its dignity and home-like repose; let no site be chosen because of its proximity to the roal, select if possible a place cumbinigy cievation, castern and southern exposure, natural trees, a pleasant outlook on river or lake, if such is in the vicinity, and make all else conform to it.
The house should be planned with a vierv to the securing of comfort and convenience, rather than outward attractiveness; I have seen some farm-houses very elaborately designed, with many gothic gables, highly decorated with carved work and costly ornaments, presenting altogether a very gay exterior, but internally, very deficient in essentials; a plain substantial building is more suggestive of lasting pleasure. True beauty consists more in correct proportions and adaplability, than in tarrdry ornamentation.

## INTERIOR ARRANGESENT.

The houseinside should be arranged with a view to making house-keeping easy; good domestic helps are hard to be got, and they often detract from the happiness of the family, therefore it is of the utmost importance to the mistress of the house, that everything needed is made handy; the happiness of the farmhouse depends very much upon the cheerfulness of the house-wife and if she is harassed with work and morried with household cares, itneed not be rondered at if she becomes indifferent to the wishes and desires of others; a Fell-arranged, plainly furnished house, with a simple style of living, makes her light-hearted and hospitable; makes home pleasant and inviting.

Accompanying this is a design for a plain dwelling-house which could be made large or small according to requirements; there need not be so many fire-places as are indicated, if not desired, thoy could be dispensed with without altering the plan of the house; but the comfort and pleasure which the open fre affords me in winter causes mo to recommend one for crery largo room in the Canadian home; they also serve as excellent rentilators.

The bath-room is placed near the kitchen $s 0$ as to be easily supplied with hot water from the cooking store, and cold soft water from the cistern rhich is under tho kitchen; the Faste pipe would join into the drain from the titchen sins. The bath-room, although not a
farm-house ; the practice of using bath-tubs in tho bedrooms has several objections, and in winter, outhouses areoften too cold and mostly always inconvenient; and if the river or lake be used, it is only the malo members of the family who can judiciuusly avail themselves of it, and that only in the summor time. To k.' $p$ the whole body clean at all times of the year is a religious duty, and if there are to be but five rooms in the house, one of them should be a bath-room.

The kitchen, as placed on the design, can be thoroughly ventilated, so as to be as cool in summer as it is possible for a kitchen to be, yet warm enough in .winter; the quite common practice of removing the cooking stove from the winter kitchen and back again is always attended with a deal of inconvenience. In the kitchen the sink is placed by the cistern pump; this is a matter which requires particular attention, unless there be a water-tight drainpipe leading from the sink to a cesspool at a considerable distance from the house There cannot be a well of pure water near the kitchen, for a well receives the drainage from a distance several times the depth of itself; there is no doubt much disease is caused by the use of impure water for drinking and for cooking purposes; the clearness of the water gives no assurance of its purity : analysis has often proved that the germs of typhoid and other low fevers can be hidden in clear water there should be no contaminating substance cast near the well.
The cupboard, which is placed between the dining-room and kitchen, with a door on each side of $1 t$, is a convenience, which, af once used would never be dispensed with.
The sitting-room is large and well lighted, for as much of the leisure time is to be spent there, it should have in it a well-stocked library; there can be no class of people more benefited by readins than those engaged in agriculture. Part of this room could be appropriately used as a museum for preserved insects, dried plants, minerals, fossils, shells and stuffed birds, also philosophical and chemical apparatus, and other intellectual attractions. Homes furnished in this way would be productive of intelligent useful farmers, instead of idlers, spend-thrifts and horsejockeys. No farm home is complete without these means of education.

The parlour and dining-room could be arranged with folding doors between, so as to be made into one large room on necessary occasions, by having the fire-place put to one side. Each bedroom has in connection with it a closet or clothes-room.

The windows of a farm-houseshould be large to admit plenty of health-giving sun-light; with the exception of diminutive chimneys, nothing looks meaner than small windows, and now, since glass is good and cheap, there seems to be no reason why they should not be large enough.

## PRACTICAL HLNTS.

Crowding other buildings upon the dwell-ing-house is a common error; we often see the carriage-house and sheds attached to and in line with the principal front of tho dweliinghouse, thus excluding any possibility of picturesqueness, for the sake of a conrenience which should always be in the rear.

Another general mistake is painting with bright colours; soft and cheerful tints of lilac. rose, lavender, bluc, buff, bromn or gray are almays far more pleasing to look upon. Especially is this so where an attempt is mado at a landscape, even pure white does not contrast well with the green lawns in front, and the variegated foliage around, white soon bocomes unsightly, showing every spotand speck; avoid bright colours, if you would have a pic turosque homestead.
the proprictor was ontirely satisficd. It would havo been somowhat different, and a little more convenient, if it had been properly planned before building was commenced. Thero is a tendency with some to lavish large sums of money on splendid mansions, without in any way mproving tho surroundings: a man erects a dwelling at an expense of several thousand dollars, but thinks it an outrageous imposition, if asked to lay out some hundreds in improving the grounds, planting shade and ornamental trees, etc., this is un egregious error; there can be little beauty where there is such a want of harmony. Property can be highly improved, and its value largely increased at a comparatively small cost, provided the improvements are carried into effect under the direction of a man of taste and understanding; otherwise it is highly probable that costly operations will but excite diegust. Much artistic display should bo avoided, because it involves a deal of labour at a time when labour is much needed on the farm, it is folly to have a place artisticly laid out unless it can bo properly kept in order; there is always difficulty in making domestics and children keep overything in such order and regularity as is desirable, for without cleanliness and order, confusion will soon prevail; with economical expenditure of labcur, the grounds around a farm home can be made to look vell without the entailing of a large annual expense.
The accompanying design may furnish some suggestions to intending builders:

The honse is placed far enough from the public ruad so as to aduit of a goud larvn in front. The barn, in the basement of which is the cattle stables, is at a convenient distance from the house. The horse stable which has in connection with it a harness-room, and the implement and waggon house, which has over it the work shop, are placed far enough apart from each other, and from the barn, so that in case of fire some of the buildings might be saved. The sheep barn is placed conrenient to the root-house, which is in the basement of the barn. The granary is near the roadway to be easy of access; the dairy is about half-way between the dwelling-house and barns, and the piggery, which should not be in connection with any other building where animals are kept, is near the orchard, because it is there the pigs should be allorred to pasture in summer, and should be far away from the clairy because of the foul odour and of the flies which gather about it.
There might be economy in building, as is urged by some, in having all those accommodations under one roof ; but it would certainly not be practicable.

A workingman's cottage is near the stables so that the man could the more easily attend to the animels under his care. It is wise economy to have good cottages for farm labourers, and employ married men who board at home; men who are steady and reliable, will stay longer in a place where they have good dwellings; then they become familiar with the work, and take more interest in their employers business, and are worth more than men Who are changing places every season; besides, farmers' wives should not be required to leep a boarding-house for working men, they generally have enough to do mithout it, and it detracts from the comforts, and inter: feres with the privacy of the farm home.

It is stated by The London Provisioner that the majority of tho large number of milk-supply organizations projected abroad during the past two or three years either have been failures as conceptions or in actual prorking. "A fresh ficld that looks calculated to yield farther harrest of disappointinent seems waiting for cultivation in the shape of dairy


BIRD'S.EYE VIEN OF HOMESTEAU.


PLAK OF DTVELLLNG.HOCSE

## HOME CIRCLE.

## DOT. <br> a stoil of the faesif air fund.

"It's a harum-scarum dea!" sand Miss Reliance Ruxbury, as she stwod amongst the current bushes at the garden fence. "A most ridiculous rdea! I wonder what this gushing American peoplo will do next ?" And she gavo an emphatic twitch to her purplo calico sun-bonnet.
There was a faint murmur of dissent from a littlo woman on the other side of the moss grown fenco.
"No-of course you can't agree trith me," continued Mise Relianco, ss tho clusters of ruby and pard flow into the six quart pail at her fegt. "You're so soft hearted that your feelinga aro forever runnmg off with your common sense. You never say a word about the national debt, or the condition of our nary, but let anybody start a subscription for sending blanket shawls to Brazil or putting up a monumont to Nethu silnh on the mecting house green, you'll give your last quarter. And now, you're going to open your house to a lot of little ragamuflins from Now York?"
The motherly brown oyes on the other side of the fence were full of tars, and a pleasant voice replied
" It makes my heart ache to think how the poo things suffer crowded together in dirty streets, with never a breath of clover field or a glass of milk. If you'd just read about it, Relianco, you'd count it a blessed privilege to give them a bit of our sunshine."
" Fd as soon have a tribe of Zulus on the place," said Miss Reliance, "and if you'll tako my adrice you'll save joursolf lots of trouble."

Mrs. Lane stupped her work for a moment and said
" Linkim and me are all alone now, Rolinnce. One by one we've laid Kate and Sarah and baby Lizzio over there in the old burying ground ; and Jack is in Colorado, and Richand in Boston, and we get hungry sometimes for the sound of little feet. When I began to read ubout the Fresh Air Fund it kind of sent a thrill all over me, and Liakim he reads about it overy day, before he crer looks at the Egyptian war, and he wipes his glasses pretty often too. Then when we heard the parson say that a party would come here if places could be found for 'em, Liakim spoke right ofi for four, and they'll be here next Tuesday, and In going to make it just as much like heaven as I can.'
"You'll make yoursclf sick, that's what you'll do Amanda Lane," replied Reliance, "but if you want your garden overrun, and your silver spoons stolen, and your house full of flies, and your nerves prostrated, why it's your orn fault.
MLiss Roxbury went up the path between the sunflowers and l. lyyhocks, entered the largo sumny, airy kitchen and set down the currants for Hannah, the house maid, to pick over. Then sho hung the purple calico sun-bennet on the nail that for forty years had been dedicated to that $\gamma$,urpose, and went into the cool sitting-room to rest m her farourite chintz covered rocker. Bliss Reliance Roxbury had been for twenty jears, with the exception of a gardener and house maid, the sole occupant of thes stone dwelling that had stood for more than a century bencath its elms and maples the pride of the village of Lynford. She was a stern moman who liked but fow people, and had a horror of children, dogs and nentiment. The rillage boys, with a keen perception of her sympathetic nature, called her "Old Ironsides."

She was proud of her birth and the substantial property that had fallen to her at tho death of her father, old Judge Roxbury. Sho was a member of tho Presbyterian Church, and paid high rental for the Rnx bury perr, but with that considered that her pecuniary obligations to tho cause wereat an end. As a general thing she had not allowed convictions on the subject of giring to trouble her, but somehor, ovorsince Sun day, when the pestor stated the work of the Fresh Air Fund, and mado a ferrent appeal for "thoss little oncs that suffer," aho had been subjected to numerous saguo but uncomfortable sensations. She rocked bact and forth in the spacious sitting room that no fy dared to inrade, and noted the periect onder of tho apartment. From the china shepherdess on the mantel, to tho braided rugs at tho doors, orerything cocupiod tho samo position as in tho dass of Miss Roxbury's girlhood. There was torture in tho thought of haring tho table corcr pulled aray, of socing tho sholls and prim oli deguerrootspes disarranged on the whatnot, of haring seand tracked in by monsll feet oror the faded

Erussols carpet, and her pot verbena bed invaded by eagor joung fingers.
Suroly roligion and humanity could not demand such sacrifices of her
"Pleaso, ma'am, the currants is to bo put over," anid Eannah, at tho door.
Miss Ruabury ruse at unce, glad of another channol for hor thoughts, but amid her woighng a...d measur ing, and her careful calculations of pints and pounds the strange impression did not leave her mind. After the rich crimson syrup had been poured into the row of shining tumblers on the table, sho returned to her chintz-covered rocker and took up tho Bible to read hor daily chaptor. Opening it at random, hor oyes fell upon these words :
"Then shall Ho nnswer them saying, 'Inasmuch ns yo did it not unto one of the least of these yo did it not unto Me.'
Miss Roxbury read no furthor on that pago, but hurriedly turned back to Chronicles, which she felt was perfectly safe ground. But mingled with tho long gencalogical tables sho saw other words betweon tho lines, so that tho Ismelitish records read thus:
"The son of Elkanalh, the son of Joel, the son of Azariah. ('Ye did it not.')"
"The son of Tanath, the son of Assir, the son of Ebiasaph, the eon of Korah. ('Ye did it not.')"

Finally the whole page seemed to resolvo itself into theso four monosyllables.
She closed the Bible and put it in its accustomed place on the table, bounded on the north by a lamp, on the south by the match-box, on the east by Bunyan's "Pilgrim's Progress," and on the west ly a bunch of morsted roses under a glass case. She was restless, miserable, tormented. She endeavoured to read the "Life of Napoleon Bonaparte," but oren the thrilling story of the Russian campaign was lacking in interest, compared with her own inward conflict betmeen duty and the old selfishness of a lifetime.
She did not enjoy her dinner, although the buttor beans were from her garden, and the black raspberries were the first of the scason.
Sho could not take her accustomed afternoon nap, and for the first time in yarrs the Daily Tribucre lay unopened. Sino even put it out of the way in the china closet. A wonderful now design in patchwork known as the Rocky Mountain pattern could not fasten her attention.
She ordered the horse and rockaway and drove four miles after wild cherry bark, for which she had no need as her garret was already a great herbarium
At least the dreary day came to its close, but was succeeded by an equally uncomfortable night. Amid frequent tossing and raking, Miss Roxbury dreamed of thin little hands stretched out to her in pitcous appeal, and a sad wonderful voico that said with infinite reproach :
" Ye did not."
The Rev. Joseph Alder was surprised soon after breakfast the next morning by the appearance of Miss Reliance Roxbury at the parsonage porch. She brought a basket of raspberries, and said:
"I ron't como in this time, thank you. I just want to say I'll take one-one of those children."

## 11.

## " Mamma, is it mornin' ?"

"No, Dut; go to slecp."
The child turned restlessly on the masserable strav pallet in the corner of the small, hot room. It uns aitur midnight, and in summer, but there was a fire in the stove, for the woman at the pine table was ironing by the light of a glimmering tallor candle.
Thero was no brecze, but in at the open window came stifling, poisonous odours.
Pale and faint, the mother bent ovor her Fork, and smonthed the dark calico dross as carefully as if it rere the finest muslin and lace. She had forked from carly dawn until dark at her dails task-button holos at four cents a dozon. A cup of toa and crust of bread had been her sustenance. For Dot there was a bun and an oranga.
Tho dress was finishod and hung on tho only chair in tho room, rith saveral other small articios. A hat of coasso whito strant, with a bluo ribbon tristod around it, a pair of bright stockings, a ting handkorchef with a bit of colour in tho border. All wero pitifully chsap in tor a uro, but dear in pstiont toil and loring sacrifice. Dot tras going to tho country for tro long, blissful weels, and tho mother could corer the
tion quring the child's absenco. She turned toward tho pallot. Dot's violet eyes had oponed. Hergolden curls woro tangled by the tossing of the little head on tho pillow. Her thin, pinched fentures wero flunhed with foverish excitomont.
" Manma, is it mornin' 9 "
" No, darling."
The woman blow out tho light and threw herself on the pallet. Tiny fingors crept eagerly into her palm.
"Mamma ; tell me more about it," pleaded Dot.
"Darling, is is years and years sinco mamma saw the country, but it was just as l've told you. Wide, clean streets, with big trees and blue sky and flowers."
"Oh, oh !" murmured Dot, "Does you'spose they'LI give me one f'ower, mamma? I found one on the strect onco-a 'ittle w'ite f'owor. A lady dropped it."
" Yes, dear, you'll have all the flowers you'll want, don't talk any more to-night."
The sky was already white mith the dawn. Tho mother did not sleep. As the light of anothor day of misery crept into the room, sho raised herself on one elbure and looked long at her child, resisting an inpulso to snatch it to her heart, then softly rose, and after bathing her face and hands and kneeling in prayer for endurance, took her work and sat down by the narrow window. A ferr hours later aho stood amid the bustle of the Grand Contral depot with Dot clinging to her dress. A crowd of mondering, expestant children were being marshalled into line to take their places on the eastward-bound train.

Come," said tho kind gentleman in charge, to Dot
Dot kissed her mother "good-byo," and laughed oven while the tears men down her face, as she entered the ranks of the odd procession.
"Oh, sir!" said the mother, as ohe turned aray, "take good care of my baby. I'vo nothing else in the world."

## mu.

Thero was an unusual stir in the village of Lynford. The railway station was thronged with people, and surrounded with vohicles awaiting the afternoon train.
Tho Rev. Joseph Alder and the ministers of sister churches conversed togethor on the platform.
"A glorious charity!" said the Daptist minister, raising his hat to wipe the perspiration from his brow.
"I expect that theso poor childron will bo a great blessing to our people," said the Methodist minister, " in broadening the sympathics and warming the hearts of some who have boen oblivious to all interests anve their omn."
" Yes," replied the Rov. Mir. Alder, "I have a practical illustration of that, not a stone's throw from whero we are standing."
The "practical illustration" consisted of the Rockbury rociamay drawn up amid the other convoyancos, with Miss Reliance on the back seat, in a state of mind in which nowly-fledged philanthropy struggled with a terror of ragamuffins. She had como to tho conclusion that her visit to the parsonage had been mado during an attack of mental aberration ; but the word of a Roxbury was as immorable as the historic granite on which Zcphaniah Roxbury stepped from the Maytlower in 1620, and the last representative of the race would not falter now, although seized with dire approhension whenover her cycs rested on the verbena bed.
It was with a grim determination to brave the worst, that she awaited the train that afternoon, but when the locomotive appeared on the bridge below the village, tho thought of the drandful boy who was coming to invade her peaceful domnin nearly overcame her, and her impulse was to order tho hired man to drivo homo as quickly as possible. She could approciato the cmotions of a Roman dame at the approach of tho Fandal.

As the train stopped at tho atation the poople crorided formand to wolcome their guosts. Miss Roxbury peored anxiously from the rockarmas. It was not. a very appalling sight. A group of pale littlo childron, tired, dusty and bowildered. Many ejes overflowed as tho train mored on, and loft theso ristinl facos, pinchod by wrant and misfortuns, in tho midst of tho kindly rillagers.
"Hore, Miss Roxbury, hore is a woo lamb for you," said Dír. Alder.
Miss Roxbury had not obserred his approach in tho crowd, and gave a start of surprise as he stood before hor. As sho lookod there was a curious sonation under tho left tide of her crape shatl, and her cold oyex gren misty.
Tha "dreadiul boy " had changed into a ting girlof
six years, as frail as a snowdrop, whose conrsu attiro could not mar tho loveliness of her dark violot oyes and hair of tangled sunbeams. The littlo creaturo strotched out her arms to Niss Roxbury, who reached formard and took her into tho rocknway, the ancient springs of which creaked with astonishment.
"What is your name ?" said Dliss Roxbury, foeling atrangoly awkward as thoy drove along.
"Dot," said the child. "You hasn't kissed mo yot, has you?"
Miss Roxbury bont and kissed the child. The rockaway creaked loudor than beforc. The touch of the child's mouth thrilled the iron netres of the woman with a sensation inexpressibly dolightful.
Misa Roxbury had imagined her life to bo a happy ono. She now discovered that she had mistaken selfish isolation for happiness. She was beginning to bo happy the first time in fifty years. Dot was too tired to be very talkative, but she leaned ngainst Miss Roxbury with a look of quiet wonder and content in her oyes.

Is I goin' to stay here ?" sho asked, as the rackaway stopped at the Roxbury gate and she surveyed the old stone house with woodbine clamouring over its grey walls.
"Yes, child."
Dot's faco grow luminous. A bath, a bountiful supply of bread and milk and a walk in the garden kept hor joyful till twilight, but with bedtime came the longing for the mother.
"I want my mamma-my own mamma," she snid.
Then Miss Roxbury gave full vent to the instinet that can nevor bo utterly destroyed in a woman.

Taking the child on her lap she caressed the white faco and sunny curls in a restful, soothing way, and talked so cheerfully that the shadors fell from the piolot cyes, and Dot, nestling close, said, "I love you."
Miss Roxbury not only begun to be happy; she had begun to live. With the coming of this sweet child hearen ras changing the dull prose of her existence into celestial rhythm. Her cold, loveless nature in the presence of this tiny girl was already becoming Ohrist-like in its tondor mercy.
Dot offored her evening prayer and was put in Miss Roxbury's own stately bed.
"Good night, dear," asid Miss Roxbury with a kiss.
"Good night," said Dot, burying her fnce in the great bunch of white roses sho had brought to bed with her. "I feel zif I'd dicd an' gone to heaven."

Miss Roxbury passed a wakeful night, but not a restless one. Her mind was fulled with plans, and then it was such a pleasure to lie and listen to the soft breathing at her side, and occesionally to touch her little band on the counterpane, still holding the treasured roses.
The next day Dot ran nearly wild with delight. She revelled among the daisies in the deep soft grass, and it was pitiful to see how small an object could charm har Jungry mind. God's commonest gifts were unknow to her in bounty and purity. Sunshine, sweet air, flowers and bird songs were onough to make her happy, and when sho found the brook that danced across the meadow her delight was-unbounded. After a day or two Miss Roxbury took tho morning train down to Bradlegville to do some shopping. She was gone until night, and all the way homo she thought of tho glad voico that would welcomo her, and her faco grow so radiant with the now joy in her soul that when she alighted nt Lynford station, old Deacon Bennett failed to recognizo her until she had passed him.
" HY all, I declare," ho said, "Relianco looks as if tho had diakivered a gold mine."
Miss Roxbury reached homeand soon had the " gold mine " in her arms.
After tea tho parcels had to bo opened. There mas paper patterns, rolls of muslin, cmbroidory and bluo flennel, a pair of child's slippers, dainty hoso, bright ribbons and a large doll.
"Oh, oh, oh !" was all that Dot could say, but her tone expressed more than the most oxtensive volume of philanthropy that was over written. Tho villago recosmalier was installed in tho houso for a weck. The Bocky Mountain patchwork was consigned to tho soclusion of tho sparo room closet, and saiss Roxbury dereloped a tasto in Mother Hubbard's dresses and rufllod aprons that ras truly marrollous.
In tho meantimo she wroto a letter to Dot's mother, in rhich Dot added tho picture of the cat, which, although not absoIntoly true to nature, serombling in
fact the plan for a houbo, was a groat astisfaction to the young artist. There came no reply to this lotter. Dot's choeks wore gotting rosy and her stop buoyant. "If it wasn't for mamma," she snid, "I wouldn't want to go back forover'n ovor."

Whon Mr. Knox, the gentleman in charge of the party, called to soo that Dot would be ready to roturn at tho appointed time, Miss Roxbury oxclaimed almost fiercely:
"I can't lot her go. I need hor. Why may I not keep hor?"
"I do not believe her mothor would part with hor," anid Mr. Knox.
Niss lioxbury was silent for a fow muments, but looked out on the lawn where Dut was swinging in a hammock with the doll and cat.
"It will be a dull house withuut the child," sho said; "but I will bring hor to the stavion."

When the morning of Dot's departure came, Miss Roxbury arrayed herself in her second-best black silk, put a few articles in a satchel, filled a small basket with fresh eggs, new biscuit, a pot of butter and a bottle of currant wine, and said to Hannah :-
"I may be gone two or three days. Giave the east chamber thoroughly fell aired and dusted befure I get back, tell Hıram to take a peck of pens down to Mrs. Alder, don't foryet to see if those canned strawberries havo worked or not, and be sure the front door is kept bolted, and put the last brood of chickens in the other sop, and keep a nowspaper over the geranium slips in the afternoon."
"Yes, ma'm."
"And, Hannah, be very careful to keep out the flies, and tell Hiram to fix the well-curb. Ho is so apt to forget things."
Dot was bathed in tears as she mounted to her place in the rockatray.
"Isn't I comin' back I" she said.
"I hope so, dear," replied Miss Roxbury, who appeared preoccupied and anxious and scarcely heard Dot's chatter on the way to the station.
" Why, Miss Roxbury," said Mr. Alder as ho assisted her to the platform, "you are a veritable fairy god mother. This rosy, dainty maiden camot be the sumo bit of humanity that I held in my arms a fortnight ago. You will miss her, will you not ?"
"I shall go with her to New York anyway," said Miss Rosbury, "and I don't mean to come back alone, either. Mr. Alder, I hopo God will forgivo me for the empty house I've had all these years."
"An empty house means a lonely heart," ho replied. "And I am glad you are going with the child." That afternoon Miss Roxhury and Dot, attonded by Mr. Knox, wended their way through a dark alley in one of the most squalid districts of New York city, and climbed flight after thight of richety stairs in a rear tenement.
The heat, the filth, the scenes of misery there indescribable. Miss Roxbury felt as if she was on the confines of the bottomless pit.
Dot darted down a long passage and disappeared in a room beyond. The frends followed and beheld her clasped tightly in the arms of a man figure that lay on a pallet. The woman had fainted.
"Mramma, mamme, look at mo!" pleaded Dot, and began to cry:

There was no rater in tho room, and Mr. Knox took a cracked pitcher from the shelf and went with Dot in search of soma. Miss Roxbury knolt besido the woman, who was only about thirty years of aso, and been rery attractire as a young girl. Thero was a gleam of gold on her left hand. Her hair was aunny like Dot's, and her features delicately shaped. This letter that Miss Roxbury had written lay crumpled and tear-stsined on the pillom.
While Miss Roxbury gazed the moman opened her eycs. Thoy wero beautiful eges, but and with mant and a strugglo against despair. She tried to sit up and moaned :
"Bry baby-please give me my baby ?".
Just then Dot retarned and carricd thio pitcher of water to her mother, who drank long and eagerly, then holding out her arms to Dot, aaid fecbly to Miss Roxbury:
" 0 madam, mill sou tako caro of my lititio girl? I think I am going to dic."
"You aro nọt soing to die-not a bit of it," said Miss Roxbury, ponging somo zino into at tascup, "hut Ill tako cara of you both. Thero, drink this and you'll
foll better right anay. How long since you'vo had anything to eat ?"

Day bofore yesterday," was the faint reply. "I had to stop work four days ago."
"Now, Mr, Knox," anid Miss Roxburry, slipping her purse intu his hand, " just step out to the nearest grucery and urder sumu kindling woud, ten and sugar. I'll puach a nice freshe egg fur this puor soul, and woll see about getting her out of this place."

The woman's face brightened, but sho said, "I'm giving you much trouble."
"Troublo," sad DIss Roxbury. "Im all alono in the world, and I've a house with twenty-four rooms in it, and plenty to do with, and what I vo been thinking of all these years I can't say. I'vo been a crusty, cold, disagrecable uld fussil, Mrs. Winthrup, and when I come duwn hore and thad folks starving to denth, and crowded like cattlo, I wonder the good Lord's had any mercy on me. Don't you worry another mite. Hero's the first stuff already."
Miss Rosbury rolled up her sleeves, put an apron over her silk skirt, and while Mr. Knox built a fire and brought water to hent, bathed Mrs. Winthrop's face and hands and brushed out her hair.
"Thank God ! why I'm better already," said ALrs. Winthrop, with a rare smile.
"Of course you are, child," said Diss Roxbury. "We'll seo what good food and mountain air will do for you yot."
A fow days lator found an occupant in the great east chamber of the looxbury house.
Mrs. Winthrop sat in an easy chair before the open window inhaling the blossoming honeysucklo that nodded to her through the casement.
The morning sunlight fell across her bright hair and peaceful face.
Dot hung over her shoulder and threw daisies in her lap.

Down by the garden fonco stood Miss Roxbury talking with her neighbour, Mrs. Lane.
Mrs. Winthrop smiled from her windore, and there came an answering smile from the depths of the purple calico sun bonnet.
"So you're really goin' to keop 'om," said Miss Lane.
" Yes, I're adopted both of 'em," replied Miss Roxbury, with a To Deum in her voice, "and I'vo sent for half a dozen littlo girls to stay until cold weather."
"Well, it does beat all," said Mrs. Lano, wiping her oyes on the corner of her checkered gingham apron, "I spose I needn't ask you now, Reliance, what you think of the Fresh Air Fund?"
"What do I think of it!" ssid Miss Roxbury grarely. "I believe it's been the means of saving my soul. I shou!d have gone into the next world holding my head pretty inigh, and considering myself bettor than most folk, and the Judge would have said, 'Rolianco Koxbury. I gave you a large house and a long bank account. What have you done with them 3' Then how my empty rooms and Grandfather Roxbury's gold pieces would have stood up against me ! And he would have said, 'Ye did it not unto me. Dopart from me,' and what answer could thare mado hin? It is very truo," she continued, is Dot came flitting down the pathmay like a fairy, "' of such is tho Kingdom of Heaven.'
a calir man's enperience in his COFFIN.
by herbert mbrbury, in the boston congregationalist.

The trains collided. I am a calm man. I confess I was startled ; but resigned myself manfully, and was calm. I got a thump on my spine and the back of $m y$ head. I lay beside the railrand track amid tho dying and the dead. I felt pretty well, quito sensiblo and rational, was nut in pain, but I could not more. Even my tonguo refused to stir. My body seemed dead, my mind and spirit wero in full life. "Remarkablo stato," calmly refiected I, "wondor what will come of it !"

What camoi A docter came. Ho chucked mo under the chin, turned mo tho other sido up and back again, put his car to my chest, got no response, muttered, "Dasdi Fatal blow on the head and spine," and considerately gave his best attontion to the living. I am not only a calm man, but a just. I did not blame him, but inwardly romarked, "MLy situation as dassgreoable -rory."
I lay with the unclaimed doad a long thule; jot not
perhaps vory long, for I romomber that I calmly reasoned even thon: "Time naturally moves slowly in such unploasant carcumstances; my friends will inquire for mo when the railrond disaster is known." They did, and I heard snatches of conversation reapecting myself as follows: "John Harkeo was on the train :" "What was he West for?" "Dead!" "Tolegrapli back to family." "Charming young wifo. Fine baby boy. Hopo ho leaves thom comfurtable. Shucking intelligence for har." "She is young and will soon get ovor it."

My calmness was triod, but I soothod me by reminding mysolf that I, who loved my Amy must, shuuld least regret that she would so "soon get over it"" Yet I tried hard to riso, to cry out, to do anything, to save her tho "shock" of the tolegram. Alas, iny buly was practically dead. I wonderod if over anuther wero in a atato so aflictive. I recalled recorded facts of persons brought to just such astate by the Syrian fover, Tho yet rovived and lived. I did not quito despair, got my future to my calmest vion looked dark,
Time passed. Voiccs again said over me, "Telegram from the. East. Harkee's remains to bo expressed without delay." "No lack of means." "Buautiful corpse. Mercy he was not disfigured. Always was fine looking." "Appears as if asleep ; almost as if ho were alive and wanted to speak." "Painless death. Wonderfully calm!'
For a moment I was tempted to curse calmness, but as instant's reflection convinced me that the awfulness of my situation demanded absulute self-pussession.
Properly enshrouded and encoffined, I was "expressed without delay," and found myself in my' own drawing room, the centre of attraction to a crowd of weoping, admiring, complimentary friends. Such appreciation wes quite flattoring to my pride. Only for a moment, however, for I calmly reflected that my warmest admirers in death had least appreciated my virtues in jife. Among them were hard debtors, hard creditors, ciespisers of my adversity, enviers of my prosperity; hardest of all, slanderers of my good name in life glorified it in death. The few who had been tender evor, and truc, wept so silently that theyp assod my closed oyes almost unrecognized, save that, being very celm, I knew each by the smothered sob, the whispered name, the tender touch, the mysteriuus magnetism which reveals to the soul the presence of the loved and true. "This would be edifying were my situation less precarious," reflected I, "but it is more than precarious, positively disastrous; calmness, however, is the part of wisdom."
Where is Amy? Somehow I luwked for her love to rescue mo-for power there is in such a wuman's love. Could I lio there and let her break her heart in twain for me? Surely I must respond to the power of her voice, her touch.
When all were gune she came. Alone with her dead! Voiceless, tearless, in her great anguish. Clinging to mo prostrate beside me, bruken-hearted, incolsolable, and I a living man, yet dead to her $!$ It was too hurrible. I fainted. Yes, I fainted, but did it calmly, knowing when and why I swooned; and when I revived remembered it all. With that memory my last hope of rescue fled, and striving to forget the trifling incidonts of a living on-coffinment and burial, I solemnly reflected upon my prospects fur oternity. The present seemed to mo a momentous hour, pregnant with etermal consoquences. Wholly conscious was I that my soul was not prepared ior its inmortality. My past life, virtuous, just, reasonably charitable and quito equablo, was to me, in that hour, loathsome. Why had I masted on trifles the powers of an immortal nature! Why neglect. ed the Word of cternal life! Why faled to test the power of Christ's salvation ! Might I even norm, acquaint mysolf with Him and-
Such salutary and appropriate reflections reco rudely interrupted by a fashiousblo undertaker, and his body guard of assistauts. The coffin, in which I had begun to foel somorthat at hume, was rejarded as nut goud enough for the decay of mortal thesh, and I heard whispered gratulation that this new one cost five hundred dollars, and that as much more money would not pay for tho Rowers which wero to adorn it. "Iovoly corpso," briskly observed the undertaker, " money plenty; rare opportunity to make our best display. Funeral at tho church, too. Crowds dramn by the railroad disastor and Harkeo's popularity. Big funaral sermon expocted ; minister specially happy in His material there, tme, surl a fnultirss life ${ }^{\circ}$ caln.

it mysolf; no ualiko my last caso. Whon tho miniator was positivoly at his wit's end to got hold of anything to the credit of tho doparted. Ho did his best, though, and mado him out alniost $n$ saint. But Harkeo, hero was 'lovely in his lifo, and in death he is not divid. ed '- that's not exactly the wording of the toxt, perhaps; the preaching you know, is not my vocation, but my business is, as Harkee was lovely out of his coffin, to make him luvely within it, su hero'nto duty." And amid subdued laughter I was liftod out of my anug rotreat, and re-arrayed for the tomb in more elaborate and costly apparol. All this, as boforo intimated, sadly sundered the thread of my sulemn refiections, and by the time I was antisfactorily bestowod, and adjusted in the five hundred dollar casket, I was su fatigued and disguated that, while ondeavoring to recover my habitual equanimity, I fell asleop only to be awaked by fresh dovices of the undertakor, preparatory to the private funeral, which I understood was to precede the public. It was the mention of my wife's name that a wakened me.
" Mrs. Harkee is hard to manage about the funeral," said the undertaker. "She's not fond of display, would like to be nuch with her doud-proposterous iden that ; doprives our profession of its only opportunity. Great ado there is to find ono withered rosebud, which I lust out of the first coffin. It seems ho put it on her breast the morning he left home, so she wants that and makes nothing of five hundred dollars' worth of hot-house flowers. They couldn't get her off her knecs to have her mourning fitted till wo appealed to her respect for the dead. She don't care even for his funeral sermon, but told the minister-looking herself mure like a corpse than Harkee here-says she to her pastor, 'Dear sir, thit is an hour for honest words, and alas, neither you nor yet I havo interested ourselves to know if his suul, in life, was at peace with God. Summoned in an instant, what dare we say of its future ? I would give my soul to know that his is safe ; for I love him better than I do myself.' ${ }^{\prime \prime}$
"Gud save her intellect," sulemnly put in the flurist. "She must be going wild to answer the rever. end gentleman in that way. So many tender, sweet things she might have told him tu crnament the funeroll sermon. The effect of that lily on the pillow is fine; the cheek, by contrast, has almost a life-like glow. Uncommon corpse!"
I tried to be calm in my coffin and prepare to die. but such a fuss was there, above, about, around, over and under, beside and boneath me, with mottoes, wreaths, crosses, harps, crowns, anchors, and no end of floral decurations, that I felt my poor soul's chances were so slender as to be scarcely worth considering."
"Sweet mottoes," bresthed an amiable lady, Amy's friend, overlooking the work. "'Saie in the arms of Jesus," 'Sweet rest in Hearon,' 'Tho gates ajar,' 'Angels welcome thee,' 'A crown upon his forchead, a harp within his hand.' Beautiful floral idea, that actual crown and harp of flowers, with the rest of the motto spelled in flowors between! That must go over to the church."
Awful to relato, the last " beautifnl floral idea" so struck my inherent sense of the ridiculous that I laughed-in spirit -and then, oither for horror that I had laughed, or from an empty stomach, I onco more fainted, and revivod only as they justled me on entering tho church. Tho firat sounds I took in wero the words spoken by tho ministor as I was borne up the aisle: "Ho that liveth and bolieveth in Mo shail nover dic." My soul grasped thom. In areot rest? No, no. That was my mother's rest, iny Amy's rest. I knew there is such a rest, and that I possessed it not. Yet the organ sand the choir. Fere chanting, "Requiescat in Pace" I stopped my ars, to use a metaphor, and said boldly to my soul: "Be calm, and deal truly with thyself, O immortal soul ; though organs, choirs, hymns, mottoes, sermons and therr authors lio, lie thou nut to thyself, for soon thou wilt be with thy Gua, where truth aljne shall stand." Thus charged, my soul made honcst answor: "Thou art no belicrer, and 'He that bolioveth not the Son shall not see life, Lut the mrath of Gud abidoth on him."' The singing of sweet hymns of love and peaco in Heavon kept creeping in to mock mo, and over my head the pastor read of the pearly gates and golien atreois, and I caught, "The Lamb is tho light thoreof," and " Whose names are in the book of lifo."
Thoy meant it kindly for mo, I know ; but they all an: iht hare knuwn that if my spirit heard I ahuald
solonnn dealing with my noul was sadly put about by the sermon. It sooms vory ungratoful to come down on a man, especially on a good man, my own dear pastor, he my personal friond and collogo classmato, too, for anytting so woll meant, so solomn, tondor, appropriate, 1 d nltogether up to tho times as a model funeml se mon over a calm, pascenble, moral man in his collin. But truth compols me to say it almost cost mo my soul to lio there and haten to it. It put me into Heavon so neatly, in theory, that had not the circumatances mado it indispensablo for me to got thero in ruality, and without any but insurmountable delaya, ita sophastry might havo chentod me. It wan very distraoting to hoar what a good son, amiable brother, devuted husband, dear friond, worthy oitizon, and benevulont holper, I had been, just as I was agonizing in spirit to loarn, oro it was forover too late, the meaning of that boliof in tho Lord Jobus Christ which is unto etornal lifo.
Pathetically the sermon closed. The audience were melted to tears, and the organ sobbed in sympathy with the crowds who passed my coffin, soothing thoir anguish with its glories. Disengaging myself as much as possible from the pageant, I asked myself, candidly, "Am I, at heart, a believer in the Lord Jesus Christ ?" and answered my soul, truly, in the negative, "Thou, knowest not, oh, my soul, aven fath's meaning." Izy this time the crowds had passed, and I felt hands busy with the flowers and fol de rols of iny fungral toilet, and know the cover of the casket was to be closed and locked. An axful spiritual anguish, unknown tefore, seized me, and I wrestled in body, soul and spirit, in the mortal anguish of a calm endesvour to savo my body from the grave, that my soul might find the way of eternal life. But the caskot closed ! Tho koy clicked in the lock, and I was borne array, fainting as I weut. Yet I fainted calmly, saying to myself " I am fainting, ind the grave will not hurt me. But what of that second death?"
The casket lid lifted. A breath of pure winter air seemed to penotrate my being, as the undertaker said, "His wife will have a last look before wo lower him. Some one has found and handed her his last gift, that last ruse-bud, and she will lay it on his heart. We must humor her." Then my wife's breath was on my lips, warm kisses which I felt, while at the same time I was thrilled with a sharp physical pain, unknown before. As she bowed ovor me, all overshadowed beitere As she bowed over me, all overshadowed
with her flowing veil, she put her little hand, with the rose-bud, upon my pulseless heart. I gasped. Sho. ghrieked, "He lives ! There is a warm spot at his heart !" "Crazy ! Stark mad with grief," they muttered, and drow her away. My wife to s mad house ! Mysalf to the gravo, and to eternal death! The thought electrified my waking life. I sat up, stood up, in my coffin ! I clasped my wife to my heart with ing left arm, laid my right hand on my pasfor's-for he stood beside me-sind said, calmly, solemnly, "Dear pastor, classmate mine, what must I do to bo sared $3^{\prime \prime}$
Ho answered as solemnly, "Believe on tho Lord Jesus Christ, and thou shalt be saved." "There is none other name under Henven, given among' men, whereby wo must be saved."
"So I was reflecting while you preachod my funoral sermon; but I under
by another method."
"Oh, that was your funeral sermon, John," ho replied, a trinkle of genial humor shining through his tears ; "it couldn't hurt you, dead ; but alive, dou't trust it ! don't, I ber ! Trust the Lord Jesus Clurist. Take Him at Elis word, as your boy does youn"
"Trust Him! I see it !" cried I, joyfully, " why, 'tis plain as day !"
I steppad out of my coffin into my carriago-putting Amy in first-and rode home, a happy beliover in the Lord Jesus Christ.

## THE PAST.

Tho infinto galleries of the past await but ono bricf process, and all their pictures will bo called out and fixed forover. I had a curious illustration of thia great fact on a humblo scale. When a bookcese, lung standing in one place, ras removed, thero was the oxsct image left on tho wall of the whole, and of anany of its portions. But in the mudst of this picture wam another, the preciso oatlino of a map which hed huug on the wall before the bookcaso was placod there. Wo had all forgotion overything about the map until wo nas its photegraph on tho wall. Thus, somo day or otllor, wo may remomber a sin which has boen coversd up, when this lower univeras is pulled away fivm bofore the wall of unfinty, where the krong-doung brands welf-racorcled, U. W. Holimet.

## SNOW FLAKESS.

Falling all the night-time,
Falling all the day.
Crystal.-winged and voiceless,
On their dewnward way;
Falling through the darkness,
Falling through the light,
Covering with beauly
Vale and mountaip height, -
Never Summer blossoms
Dwelt so fair as these ;
Dwelt so fair as these;
Never lay like glory
On the fields and lrees
Rave and airy wreathing,
Deflly turved the scroll
Defly turned the scroll,
Hung in woodland arches
Crowning meadow knoll.
Freest, chastest fancies,
Winter's sculptors rear to
Summer's inemory.
-1. V. Cheney, in the Critic,

## GOUNOD ON MUSIC.

Gounod, in a late interview in London, said among other "hings:-
"To my miod the intellectual tendency of the art of music is greates than the sentimental to-day, but the great fault of music now is that it is complex and not simple. Masters are tno apt to study the eflects of a hautboy, of a violin, of a
fute-questions of detail-and to disregard the preat value flute-questions of detail-and to disregard the great value of the cout is oran-lie expression, in its completeness, of an idea, It was not always so. Rossini and Mozart, lor
example, were both sublimely simple. All the preatest example, were both sublimely simple. All the greatest things are always simple. Rossini composed divinely from
divine inspratton. It is as though God had ordered hm to divine inspiration. It is as though God had ordered hm to aing, and be sang, naturally, easily, and spontaneously. It was his nature,
true of Mozart:"
"What is your opinion of the art of music now?" in quired the interviener.
". Like everything else, it is in a transitorp stage. It is not wholly sentimental or wholly practical. When the two are wedded together it will be sublime, and the fact of our being in this transitory state glves me confidence. There is strength in weakness, and where there is opposition to truth, truth would not be the loser; we gain the strength and experience by combat and failure; and it is always atter a transitory and hesitating stage like the present that the grandest epoch comes when ideality and realisy go hand in hand, when faith and reason are ope. The tome will come, rely upon it, although perhaps neither you nor I will see it It is the natural evolution of all things, and the history of human thought is as the physical bistory of this planet. As years and centuries roll on we shall see things clearer, unul faith and reason will be as one, and things which we now consider supernatural will be natural. Music is only one phase of thought, and in considering its presert and its future, I cannot separate it from other forms of thought. They all have the same history, and will eventually meet with the same full completeness and perfect power.
"But what will be the resalt of this present complex condition of the theory of music in Europe? "' "Why, valurally from this complexity will spring sim.
plicity. The next great master will be as simple as Mozart plicity. The next great master will he as simple as M1ozart
and Rossini. He will come as a giant and break all, but with the fragments of what he has broken he will erect 2 splendid temple-Power ; powerful, because it is truth, and slmple, because it is true and powerful. As it is with the bistory of any art, so it is with the bistory of nations. Ger many has been for years the head, the jeason, and intelligence; and Franee, the heart, the sentiment. The day will come when they will understand each other, and be as one."
"'How long did it take you to write "Faust ' ?" was asked. "About two years and 2 half; but then I ras interrupted. Peopite 30 not understand that kind of music-the simple. I expressed the Faust and Marguerice of Goethe as I under stood them."
"Have you ever heard Spohr's 'Faust '?" inquired the correspondent.
"Years 2go ; but I do not recollect it. I am glad I did not know it well at the time I composed mine, for it might have modified my conception on the subject.
After a pause M. Gounod broke out: "I envy men who hive time to express their thoughts by apostles. I am noth ing but 8 . poor musician, and the threatre absorbs all my time. I cavy men who can directly appeal to the thoughts of their fellow.men by their pea or by their voice.",
"Bat surely music is an expression of thought?"
"Yes, of course; but not so direct. I do not complain, for eveything has its use, but I eovy. men wbo are free, and who have time to use their facalties as they please. Had I my life over again I should not be a musician ; I should devote my facalities to literature and philosophy."

## A SEDATIVE AND A POISON.

Sir William Gull thus speaks of alcohol :-
"I yould also say that I do not know how alcohol does act upon the body allogether, but in disease we use it very much 252 sedative. I do not thank ins mode of action is like to soy that 2 very large number of people in society are dying das by das poisoned by alcohol, bat not supposed to be puisoned by it, In the case of a person suffering Irom alcohol dustinctils, I confess I shoald not be afrand to stop it altogethes in must cares; in the cuatrary, 2 should thon
depend upon the age of the patient, or whether there is any likellibood of doing him any good at all. If there were no likelihood of doing any goed at all it does not matter very much what ooe prescribes, but if the patient oere a young man whose orpans were good, that would be a case in which 1 should step it. That is to say, if a patient ca.ne before me $2 s$ a drunkard and not as a sick mana, anc I found his organs not permanently damaged, I would say, get rid of the alcohol at once. I should certainly not anticipate any evil consequences if he were well fed. I think it is a prejudice, and an injurious preju juce, tu suppose you must continue the poison if the patient is well fed. If the evil has not gone on to a great ex'ent 1 think people for the most pat would be willing to take advice about the matter. That is to say, where they have erred from want of knowledge. I think there is a great feeling in society that strong wine and strong stimulants make strength. I should regard that as a misinterpretation of the word strong, arising from the feeling which immediately follows the application of the stimulants. They have a strong effect, and people leel that they give strength. I believe that a very large number of people have fallen into that error, and fallen into the error cvery day, of belteviog that strong wine gives strength."

## THE DVING MOTHER.

Lay the gem apon my bosom,
Let mofeel the ot set warm breath,
For a strange chii mepasses,
And I know that 10 is death.
I would gazo upon the treasure
Scarcely given cro I go;
Foel her rosy, dimpled fingers
Wander 0 or my choek of snow
I am passing through the maters,
But a blessed shore appears; Kneel bosido mo, husband dearest, Let mo kise amay thy tears.
Wrestle with thy grief, my husband,
Strivo from midnight unto day;
It may leaive an angel blesing
Lay the gem upon my bosom;
'Tis not long she can bo there;
Seel how to my heart she nestles,
Ths the pearl I love to wear.
If in after jears besido theo
Sits another in my chair.
Thongh her voico be sweeter music
And her face than mine more lair.
If a cherab call theo "father,"
Far more beautiful than this, Far more beautiful than this, Ture thy first-born, from tho motherlogs,
Turn
Tell her sometimes of her mother,
You can call her by my name
Shield her from the winds of sorrow,
If she errs, 0 gently blame !
Load hor sometimes where I'm sleeping, 1 will answor it aho calls,
and my breath shall stir ber ringlets,
When my roice in blessing falls.
Then her soft black oje will brighten,
She will monder whence it came;
In her beart, when scars pass o'er her,
Sho will find her mother's name.
It is said that every mortal
Walks between two angels hers,
One records the ills, but blots it
If before the midnight droar
Man repentoth; it uncancelled,
Shen ho gcals it or the skies;
Boring low with voiled eyes.
It will be tho right hand angel,
Sealing up the good for heaven,
Striving that the mannight ratches
Find no misdeed unforgivon.
You will not forget mo, husband,
Laro the littlo jowel given us,
As I lorod theo, noxt to God!

## THE PROMISED LAND.

I was once crossidg a series of undulating ranges abutting on Mount Hermon with an English tourist who was making merry at the ulteriy barren appearance of the "promised served to sharpen our observation, and we found that all the hill-sides had once been terraced by human bands. A few miles farther on we came to Rasheipa, where the vinegards stall fourish on such terraces, and ue bad no difficaliy in coming to the conclusion that the bare terraces, from which lapse of time had worn sway the soil, were oace trelised with the vine, the bighest emblem of prosperity and jop. Similar terraces were noticed by Drakie and Palmer in the Desert of Judes far from any modern civilization. It is cesch infer that because 2 place is desolate now, it must almays have been so, or must alurays remain so. The Arzb historian tells us that Salah-ed.Din, before the battic of Hattin, set fire to the forests. and thus encircled the Cra. aders ieth a rea of fame. Now therc is scarcely 2 shrub in the neighbourhood. In wandering through that sacred n the neighboarhood. Cremandering through that sacred the number of rains that stad the landscape, and show what must once have been the aztural fertility of the country Whence has come the change? Is the blight natural and permanent, or has it been caused by accidental and artificial
circumstances, which may be only temporary ? Doubtiess, each iuin hes its talc of hurros, but all trace thent desuruction to Islamism, and especially to the blighting and presence of the Turk. That short, thick, beetle-howed bandy-lepged, obese man thal so many tourists find so charming, is a Turkish oth.ial. He and liss aocestors have ruled the land since $151 \%$. A Wilberforce in sentument he is the representation of "that shadow of shadows for goodOttoman rule." The Turks, whether in their Pagan or Mohammedan phase, have only appeared on the world' scene to destruy. Nu suctal or civiszing aft uwes - hing to Turks but progressive debasement of decay. a nat ineap of stones in which you trace the foundations of temples and palaces, where now the owi hoots and the jackal lurks, was once a prosperous Chris.in viliage. Granted that the Christianity was pare ne....... in creed nor ritual ; yet it had even in its debased form, a thew and sinew that brough prosperity to its possessors. The history of that ruin is the history of a thousand such throughout the empire. Its pros permy led tu is desiruction. The insolent lurk, restrained by no public opinion, and curbed by no law, would win from the villagers the fruits of their labour. Oppression makes even wise men mad, and the Christians, poaded to madness, lurned on their oppressors. Then followed submission on promise of fargiveness. The Christians surren. dered their arms, and the flashing cimeter of Islam fell upor the defenceless, and the place became a ruin amid horrors too foul to narrate. - The Contemporary Rentew.

THE ELEPHANT WHO DID NOT SEE THE foke.
The Rev. Mr. Watson gives a very curious story in illastration of this animal's wonderfully long memory of a wrong suffered. One of those pests of sociely, "a practical juker," visited a caravan in a West of England fair and tried his stupid tricks upon an elephañt there. IIc first doled out to it, one by one, snme fingerbread nu's, and when the grateful animal was thrown off its guard he suddenly proffered it a latge parcel wrapped in paper. The unconscious creature accepted and surliowed the lump, butimmediately began to exhibit signs of intense suffering, and snatching up a bucket handed it to ihe keeper for water. This beinggiven to it, it eagerly swallowed quantities of the fluid. "Ha!" cried the delighted juker, "I guess those nuts were a trifle hot, oll felliw." "You had better be off," exclaimed the keeper, "unless you wish the bucket at your head." The fool took the hint only just in time, for the enraged animal having anished the sixth bucketiul, hurled the buckel atter its tor his life might have been forfeited. The affair had not, however, yet concluded. The following year the show revisited the same town, and the foolish joker, like men of his genus, unable to profit by experience. thought to repeat his stupid trick on the elephant. He took two lots of nuts into the show with him-swect nuts in one pocket and hot in the other. The elephant had not forgotten the jest played upon hiro, and therefore accepted the cakes very cautiously. At hiro, and therefore accepled the cakes very cautously. At
last the joker proffercd a hot one; but no sooner had the injured creature discovered its pungency than it seized hold of its periecutor by the coat-tails, hnisted him up by them, and held him until they gave way, when he fell to the ground. The elephant now inspected the severed coat-tails, whicb, after he had discovered and eaten all the sweet nuts, he tore to rags and flung after their discomfited owner. - Chambers' fournal.

## OLD CUSTOMS IN 7 HIBET.

The principal food of the country is called jamba. To make it, a quantity of powdered tea is cooked for several hours, alter which it is poureci into a churn, when salt and butter are added, and the whole is stirred until a complete mixture is efiected. The broth is then divided among the hungry oner, each of whom gets his share in a wooden bowl hungry oner, each of which a sack of roasted barley-meal is brought ont. after which a sack of roasted barley-meal is brought ont.
Every one takes a handful of meal from the sack, puts it Every one takes a handful of meal from :he sack, puts it
into the tea and mixc- the mass into a shapely lump, and into the tea and mixc the mass into a sbapely lump, and swallows his dough with a keen appetite. Alter the mea is over, the wuoden bowls are licked clean with the tongue and worn on the breast next the skin as something plecious.
Three ways of burying the dead prevail. The poor sink their dead in ot.e of the mountaia streams ; those of a better class hang the bodies upon a iree, where they aro consubed by birds, and the bones are afterwards thrown into the river; by birds, aod the bones are afterwall pieces, pound the bones
the rich cut the bodies upinto small the rich cut the bodies up into small pieces, pound the bonea
and mix them with jamba, and then carry the remaios to the mountains where they are left for the birds. These are old mountains where they are left for the birds. I hese are old
customs and have no connection with religion. -Lieuf. $G$. Customs and have no connection with

The corr nation of the Czar is announced to take place at Aruscow on the 27 th May.
Tire faculty of Boadoin College has expelled five sophomores recently suspended for hazing.
A nunger c: armed explorers, under Austrian officere, have left Belgium to join Staaley in the Cobgo expedition.
Ture teaching of music in the public schoois of Japan bas been conducted for the past two years by Luther W. Masod of Boston.
Crisse has of lite been alarmingly on the increase as Germang. Desperate murders and robberies are of aimost daily occurrence.
Tue Senate of New Jersey has passed by eleven to ten a bill prohibung the manufacure or sale of any alcotholic o intoxicating liquors.
The municipality of Rome has placed a memorial table in the house whith Prol. Samuel E. B. Alorse nohabited while in that city in 8830 .
The anti-slacery suciecies of Madrid, Saragossa and Felencia demaca the sappression of the ten gears' services Velcacia demacu the rapfisess
by emancipated C̣aban slares.

## YOUNG CANADA.

STRETCHING THINGS.
"I'm almost dead! It is as hot as fice, and I've been more than a dozen miles after that colt."

Andrew threw himself at full length on the lounge and wiped the perspiration from his foreherd.
"Where did you go ?" inquired his father.
"I went over to Briggs' corner and back by the bridge."
"That is little less than a mile and a half. Is it so very warm, Andy? It seems quite cool here."
" No, not so dreadful, I don't suppose, if I'd taken it moderate, but I ran like lightning and got heated up."
"You started about five o'clock, my son, and now it lacks a quarter of six," said his father, consulting his watch.
"Yes, sir, just three quarters of an hour," answered Andrew, innocently.
"Does it take lightning forty-five minutes to go $\varepsilon$ mile and a half?"
"I didn't mean exactly that, father, but I ran all the way, because I expected the whole town would be here to-night to see my new velocipede," explained Andrew, reluctantly.
"Whom did you expect, Andy? I wasn't aware such a crowd was to bo here? What will you do with them all?"
"Jim, Eddy, and Tim told me they'd be round after school, and I wouldn't wonder if Ike came, too; that's all."
"The population of the town is five thousand, and you expect three of them; well, as you are very sick, I'm glad no more are coming. You couldn't play with then at all."
"Sick!" cried Andrew, springing to his feet, " who says I'm sick?"
"Why, Andrew, you said you were almost dead; doesn't that mean very sick?"
"You are so particular, father, about my course. I wasn't nearly dead, to be sure, but I did some tall running, you bet! There were talking! I don't mean exactly what I say, of more than fifty dogs after me, and I don't go much on dogs."
"Quite a band of them. Where did they all come from?"
"There was Mr. Wheeler's sheep dog, and Rush's store dog, and two or three more, and they made for me, and so I ran as fast as I could."

> "Five at the most are not fifty, Andy."
"There looked to be fifty, anyway," añswered Andrew, somewhat impatiently. "Carter's ten-acre lot was full of dogs just making for me, and I guess you'd thought there was fifty if it had been you."
"Ten acres of dogs would be a great many thousand; have you any idea how many?"

Andrew did not like to calculate, for it occurred to him what a small space ten or fifteen thousand sheep would occupy when camping, and ten acres of dogs would be past calculetion.
"But," his father continued, "I know no better way to break you of the foolish habit of exaggeration than to tell the children the trouble you had in going after the colt. Fou
ran like lightning, encountered ton acres of dogs, which would be hundrods of thousnnds, travelled more than a dozen milos to got one and a half miles in a straight line, expected to find five thousan ? pesple here to examine your now velocipede, and when you reached homo was nearly dead!"
"Please don't, father, the boys and girls will all laugh themselves to death, and I won't exaggerate again if I live to bo as old as Mothuselah!"
"Laugh themselves to death at a simple story like this? I hope not! But that it will rather set them to watching their own mauner of telling stories, so to be sure they do not greatly overstate things. Habit, my son, grows with years, and becomes, in time, so deeply rooted, that it will be impossible for you when you become a man to relate plain, unvarnished facts, unless you check the foolish habit you indulge in every day of stretching simple incidents into the most marvellous tales."

## WHEN MOTHER IS ILL.

Whid little girl will resd these stanzas, and seo her orn portrait?

When mother is ill, yon ought to seo
How kind and loving I try to be.
I step aboat in whe gentlest way;
With the best of tea and the brownest toast,
Aud $\begin{aligned} & \text { batevor I think will tempt her most; }\end{aligned}$
And I teep tho little ones, oh, so still!
You ought to see me when mother is ill!
I carry the babs up the stair ;
ler him play mith my dollios thero-
ind rock him one that I koep on the eholf;
Inderor scold, and I nover frot:
I cavor him a darling, a pink, a pot.
And I'm ever so bind to Jack and Will,
Ever so patient whon mothor is ill.
When mother is ill, I tako her place,
As well as I can, with a sober face.
I go to tho door when father goes,
And bid him good.byo on my tip.toos;
I watch for the doctor, and let him in, I help When Bridgot is making cako, And a taste of the cookies she lets me take; And I baste in my dress a nice white frill, For I try to be neat when mother is ill.

What's that you are saying? You think that Nell Should do thoze thinge wher mother is well $9-$
Should sit in the corner, live a mones,
And mind the baby, and help koop house, And be as dear as a child can bo.
As sweot as a hly! Oh, Fon shall soo.
Just watch me now, and I know yon'li tell
The folks, I'm good when mother is well.

## FARMER BOYS.

Many country boys who have secured situations in the city are throwing them up and returning home. They find it easier hoeing corn than working early and late for a jobbing house, and trying to sleep during the sultry summer nights in the open-like attics of cheap boarding-houses. Their wages are small, their food inferior. They aro overworked, and have little or no recreation. The work required is far more laborious than that of a green hand un shipboard. They find themselves but minor parts of some huge commercial machine, and thereby being rapidly worn out by its merciless wear and tear.
They are in the same category as the omniJus or car horse, and individually of no more importance to the great men at the head of the firm in whose service they may bo. The days when it was common for a boy to begin as light porter and work his way up to a part
nership in the firm, finishing by marrying tho daughter of the rich merchant, are found no longer cut of the story books. We do not now do business in that way. As woll expect to enlist as a private in the regular army and rise step by step to the position of general. Life, health and vigour, with intelligence, are as the lubricating oil which diminishes tho friction of the iron machinery; and this oil is rapidly used up. Shall the boy atick to the hoe and plough ? It is hard to advise. The farmer does not ofton rank among our millionaires. But still there may be something botter than being a millionaire.

## ALL SORTS OF HAIRS.

I suppose you youngsters think that all hairs are alike except as to colour ; but that is only because your eyes are not very sharp. If your eyes wore as sharp as a microscope, you could tell from the tiniest slice of a hair whether it grew on a boy or a quadruped, and what quadruped. A human hair, I am told, looks, in that starching little instrument, like a hollow tube, quite transparent, and marked with irregular lines around it. On looking very closely, these lines are seen to be the ends of separate surface coats, or bark of the hair. Think of your hairs having bark! Inside the thin, scaly covering is a fibrous substance, from the bulh where it begins, to the point. The colour of the hair is decided by the colour of the fluid that fills this transparent tube. A cat's hair looks, under this prying instrument, like the trunk of an old, rough palmtree; while a bat's hair resembles flowers of a trumpet shape, stuck into each other to form a chain. A bat from India has the trumpetshaped cups expanded very wide, and notched on the edge. Hair from the head of a bee is pointed and set with short hairs standing straight out from the stem; and the hairs of a caterpillar are like stout, horny rods, drawn to a point and set with spines on each side.

This is very queer; but there's another thing about it. If the hairs of sheep, and other animals whose hair is used in manufactures, had not rough scales which clasp and mat together, they could not be made into felting. That is what makes broadcloth and other roollen cloth so firm and strong.

## A RAT AND A WEASEL.

If animals are not endowed with reason, it would be interesting to know just what faculty a Santa Barbara weasel summoned to his aid the other day. He had been worsted in an encounter with an enormous rat, which, aware of his own superior strength, subsequently bull-dozed him most, shamefully. Determined not to submit to such indignities, the weasel improved a few moments of solitude to dig. through a heap or hardenel compost a holo large at one end, but 80 smail at the other as just to admit the passage of his body. Having completed the job to his satisfaction, he went forth and engarged in another battle with the rat. Again he was defeated, bui this time his resources were not exhsusted. He darted into the hole with the rat at his heels, emerged at the small end, and entered agair. at the large end. The rat, tightly wedged in ihe narrow passage; fell an easy victim to the cunning of his advorsary.

## THE GREAT STONE PICTURE-BOOK.

You know that the world has been many thousands of years the workshop of the winds and waves. If any one had been in America, say ten or twenty thousand jears ago-for no one can say oxactly when it happened-ho would have found that it was a pretty cold country. North America was nearly the same shape that it is now, but a strange thing had happened. All the upper part had been lifted up out of the sea, and it was so terribly cold that the whole country was covered with a thick sheet of ice. The ice covered all

- New England and the Middle States, and stretched clear across Long Island Sound and Long Island, and out into the sea, just as it does in Greenland to-day. There were glaciers such as we see in Switzerland and in the valleys of the Connecticut, the Hudson, the Mohawk, and the St. Lawrence.
Then the land began. to sink down again into the sea, and the summers grew warmer, and the ice began to melt and form lakes and pools, shallow bays and rapid rivers. The whole mass of the ice began to slide down into the sea. It ploughed up the loose earth, and tore off the rocks, and rolled them over and over, crushing ard grinding them into sand and gravel. If we had lived then we should have said the sea was invading the land; the fact is, the land was sinking in the water, and every year the beaches moved farther into the country. There were travelling beaches, and there were great fights betwoen the rivers of ice water and the ctormy waves that toro up the sand and flung it down before the floods from the hills. Every railroad cutting made through a gravelly hill will show you rounded pebbles and stones, layers of sand and gravel, all sorted out exactly as we see them on the ahore to-day.

Look about and see if you can find a sand bank or a gravel hill. Sand is used in housebuilding, and the masons in. your town will be pretty sure to find a place where they can dig it out to pat in their mortar beds. Look at one of these sand pits. The sand is arranged
in layers and sheets. Take these round stones sorted out according to thoir sizes in the hill. You cannot think the sand made itself. You cannot imagine the Creator rounded all these stones and placed them in layers merely for amusement, or to make something to puzzle us. Everything wo seo in the world had a cause, and if you tind something far back in the country that seems just like the ea shore, you may be very sure the sea was once there. Sand and gravel are made by the waves where
 Eigland touched France.
lifted up out of the water and let down again, and each time the coast line moved backward or furward. Continonts became archipolagoes, and then scattered islands, and at last sank in the sen. Rivers turn into bays, ond valleys became sounds and straits. Europe was once much larger than now, and once of wholly tifferent shape. Ireland joined Eugland, and

Everywhere there has been change; not suddenly, but slowly, just as it is to-day. No man has scen Sandy Hook growing, but it does grow. No one can measure how fast the hills fall into the sea near Boston, yet the work goes on all the time. The gravel heaps and sand banks of New England and the sandy barrens of South Carolina and Georgia are compara tively new. That last change when beaches extended far back into the count:y, was really only a little while ago, perhaps only half a million years, more or less. Behind all that were older seas and more ancient shores. As soon as there began to be land there was a beach. Perhaps the first land was only a sand-bar. Volcanoes threw out hot rocks and ashes, and these fell in the sea, and were ground up into sand. These old, old beaches, so venerable no man can count the years that have passed since the sea ruared above them, are dead and turned to stone. To-day, as we know, they are called sandstones. You can see the ripple marks and even the old shells in the stones we put into our houses.

People who have looked at the many
they meet the land or roll down the river, so we feel sure wherever the sand is now that once the waves were there.
If you were over down upon a low flat beach When the tide was coming in, you may have seen that as the water crept up, little capes, straits, islends, and so on, were formed along the edge of the water. Every change of level in the water changed the shape of the miniature continents. So $i t$ has been with the real contiuents. Neither Europe nor the Americas, Asig, Africa, or Australia are now the shape they were years ago. They have been
different kinds of rocks and have studied the work of the sea, the tides, and the waves, have tried to make a science out of it all. They call it geology. Perbaps you fancy that it must be a dry, dull science. Why, you are a geologist yourself. I have toid you where these queer things about the rock can be found, and if you have seen them, or have tried to imagrine how they look, then you have studied the science too. The nexi thing is to try for yourself, and see if you can turn over a fer more leaves of the great stone picturebook.

## GLEANINGS FROM MANY FIELDS.

IT is charged, and denied, that London (Eng.) middlemen in the ment trado mako "five and sometimes six profits," on every joint before it gets into the hands of the consumer.

Professon F. A. Friemiy well says that " boys must be made to love the farm, then they will stay." As means to ihis end, don't make the daily task too burdensome, and teach them to reap the harvest of sight and sound.

The smallest hogs in the world are quartered in the Zoological Gardens in London. They came from Australia, and are known as the "pigmy hogs." They are well formed, are frisky, good-natured, and make excellent pets. They aie about the size of a wild bare.
Consternation in a kitchen was occasioned by an old chanticleer, slaughtered and brought in for dinner, "rolling out of the basket and walking the floor." Investigation showed that "his neck was left partly connected," and he chose to take advantage of the last chance for life.
The discreet farmer will not nut a bit full of frost into a horse's mouth. The frost should always be "drawn" first. Whether or not the hit is in a condition to harm the animal, can be readily told by touching a moistened finger to it. There are days irsome localities when it will be about as agreeable to touch the tongue to a red hot bit ai to one full of frost.
Anything which increases the comfort of an animal is likely to be of permanent benefit to it, and also to the owner. For this reason, warmth in winter and coolness in hot weather are always important, in addition to all the good food needed. The question should always be, not how little can he fed, but how much at a profit; and, also, how much less food, when the animal can be made thoroughly comfortable, by proper shelter and care, aside from food.
Dr. Haley says (Australian Medical Journal) that, as a rule, a dull, heavy headache, situated over the brows and arcompanied by languor, chilliness, and a feeling of general discomfort, with distaste for food, which sometimes approaches to nausea, can be completely removed, in about ten minutes, by a two-grain dose of iodide of potassium dissolved in half a wine glassful of water, this keing sipped so that the whole quantity may be consumed in about ten minutes.
Many persons take cold from too much exposure of the inner throat. The mouth wide open or constant talking in the air often brings the throat and bronchial tubes in contact with air too chilled for lung cir ulation. The nose, and not the mouth, is the great inhaler. It is constructed as a warming apparatiיs, and answers its purpose admirably well. Catlin wrote a book with the title "Keep Your Mouth Shut," and claimed to have found out that the Indians are wiser than the white men in this particular.
at the recent Ensilage Congress in New York City, Rev. Dr. Ormiston was one of the speakers. He said that farmers made a serious mistake in feeding green corn to cattle. No annual plant was a healthy fodder unless it was near maturity when eaton. Physicians
had told him that much of the sickness among very young children was caused by the fact that they had been given milk obtained from cows that had been fed on food not matured. Animals should not be allowed to eat annual plants that had not been exposed to the ripening influence of the sun. Sunlight wns life, and sunlight was bottled up in plants. But with perennial plants, like grass, the case was different. Nature intended that perennial plants should be eaten green.
A cornespondent of The Ohio Farmer, who does not speak without experience of Jersey cows, having kept at different times ten or a dozen half and three-quarter bloods of the breed, takes this heretical view: "Judging from my own experience and observation, the coming farm cow will not be a Jersey or have any Jersey blood. I have no prejudice agninst the breed. They are generally rich milkers. though not always; but I greatly question whether they will produce a pound of butter as cheaply as a good native, and in every other particular (except appearance) they are much inferior. They are delicate; they are much more liable to milk fever. abortion and other similar troubles than any breed I know. At the same time, they are large eaters, but very choice in their taste, and for beef are absolutely worthless."

Mr. M. Leonard, communicates to Rural Home what he thinks "very good evidence that in the process of graiting an effect is produced on the bud to change the year of apple bearing": "In 1871 I purchased a farm on which was an orchard of about 500 trees, set seven years, and which had begun bearing. Finding the fruit not such as I wished to raise for market, I had about 150 trees grafted the following spring. In order to have it bear the right year, I was particular to have the scions taken frum a young, thrifty Baldwin orchard un my home farm that had always bome on what is called the odd year, but I was much surprised and disappointed when they commenced bearing to find them bearing on the even year. I then (I think in 1878) cut scions from trees that always bore the even years, and had the remainder of the orchard grafted. The last grafts have commenced bearing on the odd year."
An extensive breeder, after feeding for cight or ten years, goes upon record in favour of cooking and expresses the belief that onefourth of the grain is saved thereby. The following experiment is given in his case: Two sows of the same litter, and the same every way, were selected. No. 1 weighed 252 pounds and No. 2 weighed 280 pounds. No. 1 was fed for seventeen days on cooked unground corn, and from the consumption of two bushels and twenty-one quarts, gained thirty-one pounds. No. 2 was fed the same time on raw unground corn, of which she consumed three bushels and thirteen quarts, and gained thirty poutds. Another instance is given in which shoats were fed on raw and cooked corn for six weeks, the result being that while those fed on raw corn gained ten pounds to the bushel, those fed on cooked corn gained fifteen pounds to the bushel-results which are certainly wortb the candid attention of breeders. Can any reader of the Rurai Canadian furnish for our columns similar results from his own experience?

## CREAM.

Ir seoms natural, doesn't it, that when a man's business gets run down he winds it up? -Boston Post.

The man who was "largely instrumental" was probably of a mechanical turn of mind.Boston Transcript.
" Yes," said the farmer, " barbed wire fences are expensive, but the hired man dose'nt stop to rest every time he has to climb it."

> Look not through the steltening bars
> Upon tc-morrow ;
> God will help thee bear what comes
> Of joy or sorrow.

An old bachelor, seeing the words, "families supplied," over the door of a shop, stepped in and said he would take a wife and two children.

Fire is a good thing in the house; but it should be in the chimney, and not in the wife's temper-cooking the victuals, not roasting the husband.

A little girl, noticing the glittering gold filling in her aunt's front teeth, oxclaimed: "Aunt Mary, I wish I had copper-toed teeth like yours."
" I know that the world, the grest big world,
Will never a moment stop
To 800 which dog mas be in the wrong,
Bnt will shont for the dog on top.
Bat will shont for the dog on top.
"But, for me, I never ahall panso to ask Which dog may be in the right; For my heart will beat, while it beats at all, For the nnder dog in the fight."
In what respect do time and a mule resemble one another? In the fact that it is better to be ahead of both time and a mule than behind either of them.
"Ane you feeling very ill?" asked the physician. "Let me see your tongue, please." "It's of no use, doctor," replied the patient, " no tongue can tell how bad I feel."
AN Irish wit hearing that a stingy and slovenly barrister had started for the Continent with a shirt and a guinea, observed, "He'll not change either till he romes back."
That young lady who made 700 words out of "conservatory," last fall, has run away from home. Her mother wanted her to make three loaves of bread out of " flour."
A BAD ending: "Well, William, what's become of Robert?" "What, 'aven't you 'eard, sir ?" "No. Not defunct, I hope." "That's just exactly what he 'as done, sir, and walked off with heveryting he contd tay his 'ands on." A promising boy, nót more than five years old, hearing a gentleman at his father's table discussing the familiarline, "An honest man's the noblest work $\overline{\mathrm{Tf}}$ God," said he knew it wasn't true, his mother was better than any man that ever was made.
A hog is "dressed" when it is shaved and perfectly bare. A man is dressed when he is shaved and has his clothes on. A lady is "full dressed " when she is not sbaved and has a minimum of clothes to a maximum of figure. The difficulties of the language becoma daily more apparent.
Holsan Hunt's great picture, "The Flight into Egypt" has been irretrievably ruined by the stretching of the Syrien canves on which it was painted. It is s very unfortunate thing for art that some of the wonderful creations for which our Government psid big prices were not painted on Syrian canvas. Norristown Herald

## SOAIETHING FOR EVERYBODY．

## read，mark，axd inwardly digest．

If you have nausea，want of appelite， $\mathrm{n}_{\mathrm{p}}$ lu－ lency，dizziness，ieverish symptoms，yure are suffering from costiveness，and Hup yifters is the Sure Cure
If your tital fores are depresfed，if you have a feeling of gencrad lassitude and weak－ oess，are easily fatipued，perspre freely on going to sleep，are short of hatath on rvery slight effort and have a goneral leeling of melancholy and deppession you are suffering from general debility and Hop Bitters re moves $i t$ all．
If you have a sense of weight or fulness in the stomach；a chang wable appetite，some－ times voracions，but peneraliy feeble，a morbid craving ；low spirite aftes a fll peal，with severe pain for sope time lie ea ing，find rising on the sognach ；sour apouaco，yomit some of the ex symptoms，you a？suffe．ing from dyspe sia，and Hop Billers will perma nently cur you．
If youfreeze one hour，burn the pext，and woriur grother ；if you are suffering all the $^{\text {Inquisition，one moment fear }}$ ing gou will die，and the next learing you wonf：if you have blue nails and lips；yel－ syderiog from ghost－ike complexion，you Bilious Ialarial Fever，or Ague and Hop Bitters will speedily cure you．
If you have a dry，harsh and gellow akin dull pain in the right side，extending to the shoulder blade and pit of the stomach；a ten derness over the region of the liver；a sense of tightness and uneasiness abjut the stomach and liver；yellowness of the eyes；bowels irregular；a hacking or dry cough；yregular appetite：shortness of breathing；feet and hands cold ；tongue coated white；a disagree－ able taste in the mouth；low spirits；blotches on the face and neck；palpitation of the heart ；disturbed sleep；heartburn；lassitude －if you have any of these symptons，you are suffering from Liver Complaint，and Hop Bitters only will cure you．
If you have a complaint which few under． stand and none will give you credit for－an enfeebled condition；a goneness throughout the whole＇system ；＂twitching of the lower limbs；a desire to ily all to pieces，and a fear that you vill ；a steady loss of strength and healih－any of these symptoms show that you are suffering foom that hydra－headed disease， cure you．
If you have Bright＇s disease of the kidneys， or any other disease of the kidney or urinary organs，Hop Bitters is the ooly medicine on carth that will permaneatly cure you．Trust no other．
－Why is Mrs．Lydia E．Piokben＇s Vege－ table Compaud like the Aississippi River in it spriog frester 2 －Because the immense volume of thisheraling siver mores with such momentur that it sweeps away all obstreles andit literally flooding the country．

## 4ROUGR ON R ${ }^{2} \boldsymbol{y}^{2}$ B＂$^{\prime \prime}$

 Dingsat．
Mes．J．G．Ropertson，of Toronto，was cured atgeneral debility，loss of appetice，etc． She sags＂rint life was
she used Burdock－nleor，Bhters．＂She also states that＂she fens werac than for years， and cannot prise Eurdock Blood Bitters too giveates of blood，liver，and kidneys．
－＂Presumption begins in ignorance adrends in ruin．＂On the other hapd，the cantion ad scientific research and its use ends in restornag shattered onstitutions and condowing men ain wgonen with health and happiness．＂My torimented back，＂is the exclamation of pure that one poor hard． wooking man nid moman：do sou know why overtaska and need strensthenings and yoyy system needs to be cleansed．

A－HBarty Pecommendationn－Jacob A．Empey，or Ceanaraore tales that he has taken Burdock Broou Bitters with greal benefit ina lingering compling and add
＂BDECREUPABRA．＊
Quick，complele cure，all annotiang Dey，Bladder，and Uranary Diseaserg
Draggists． ＂unup Wot can never die，＂and bere
are none yen 30 d whins spoken nequrding are none Dee 3 d wriss spoken aerarding
Hagyard＇s Yelognail，that old reliable remeds for externa）exafinernal use．It cares shegmansur，deafness，cricupryore Rek．

## Stifntifit and 够tut．

If youp sods in the water＂with which you are for ash windows you will find that finger－nfaks，putty stains，etc，will be much alone is med． Palaleto Flannal Cakbs．－One pint of buttermilk，two well beaten eggs，flour enough to make a stiff batter．The flour to
be mixed，half wheat and half cora flour． Put a sp，onful of sea－roam into the flour，and cook

##  

 The n two ergs，beaten well．Sthin four ennugh wafle－irons．Warmed ovkr Potators．－Treat these in the same yay as the scolloped，leaving out he flour and using less milk．It is a much nicer way then slicing them into an old tho basin and giy of a sir now and then with an
iron spoonen ile part of the potato and all the butt ournes on and flyvours the mess．
Rici fitcken pig．－Line a pudding dish with stgsinf broiled ham．cut up a bolled chisken wno nearly fill the dish，filling in with gravy or melted butter；add minced onons，if
you like，or a litle curry powder；then pile you like，or a hitte curry powder，then to fore the top quite thick．Bake it for a half or thiee－ quarters of an hout
In these days when eggs are so expensive， it is worth something to know that one egg will settle a pound ot mffec．Warm it in the oven，break in the egg and stir iwn or three minutes．Every keinel will be glazed and the coffee clear as wine．Grounc：colfee can be treatod in the same way．It must not get so hot as to cook the egg．
a Cilild＇s Stobicher．－A good way to regulate a child＇s stomach and bowels is to every da fur breakfast or dinner ；see that it
ever is well silled，as salt promotes digestion． Thereiments of a child who is in a normal condition aimnst always proceed from the stometh，and much may be done for our childeth by nayiog some attention to their diet，and so avoid giving medicıne as much as possible．

Watermelon Cark．－White part：One and 2 half－ups of sugar，one half cup of sweet milk，whites of three eggs，two tea spoonfuls of baking powder，two rounding cups of flour．Red part：One cup red sugar sand，one－half cup of milk，one－fourth cup of butter，yolks of three eggs，one cup of ratsins chopped not too fine，two teaspoonfuls of baking powder，in a large dish；put the red in the baked in a large dish；put it

Sifiling ashes is 2 gieat waste of time and good clothes．Wet the cinders dumped in the fire pan and bank the fire after dinuer． Leave the drafts open untul the mass ignites， then nearly close 2ad you have a good fire until ten o＇clock at night．The next moin ing throw all this slag away；it is ci mpletely exhausted．There must be a good live bed of coals to cover with the damp cinders． This fire will do everything it ought to for supper except broil steak and toast bread． Leave therr for the next night when there will be no cinders to burn．
A Fing Recipe for Savolry Beef．－ Three and a half pounds of lean uncouked beef，pound it，and chop $2 s$ fine as posuble， square sod crace strings，and acd butter the size of an egg，warmed a little but not melt ed，four tablespoonfuls of sweet cream，threc eges broken oyer the meat，a pleole nutme grated，four teaspoonfuls of salt．two and a hall of black pepper，and a tablespoonful of weet marjorum；knead well，make it in two rolls，about the size of a beef＇s tongue，press closely and bake one hour，basting frequently with butter and water．When cold cut 10 thin slices for tea－table or luncheon．
CORN－ment MUSH．－Have the pater boiliog and the meal ready．The quantity of meal requised to oly be judged by er right consistency can ade ber pore water that：others．For a family of five persons 2 pint would probably be found sufficient．Sift the meal into the looling water with the left hand while stirring the water with a xpeon or pudding stick with the right，unti mea coough is in．If the meal as ranted when should be made as it be made thinner done．If coarse，lomer cooking Corer and will requ the pot phere it will simomer closely，and set the pot were tors at least． or cook verys improre it Serve marm longer woul is can be sliced when cold and browned on a griddle slightly olled for a brealforst diah．

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TONCATO WHOLESALE ALARKETS.
Otrice Roral Cajapuy. Toronto, Feb. 22nd, 1833.
Catfles asl Snery. Tho reopito ut in eo stock havo brica hauthod, and prices in 004 sequence aro arm. cer lb. for sping delirary. bot shipmouts at present ara almost conined to Amarican stock. Good butchors' cattlo aro worth fye to $5 a$, but ilhoold the supply incroasa, the latter would probably not tho paid. Ordinery catlo sell at 3 je. to to. Tho suppiy of shoop and lambs ia rastricted and prices firm at 5 c. for tho former, and 5 jo. to GC for the lattor. Celros aro in hght recoupt and firm at 9 oc per lb. dreased reight

Floin and Mrelh - Tho four marktt is sim. Transactiocs havo been fow on ancount Oi thed as halders wera unwilling to soll
 NeO and \$1.75. Extre is nomunal at 81.50 to 84.00 bran is in batter demand and highor, sxlos being reportod at \$l4. Oafercet is mith mios of choico cers at cqual to $\$ 4.921$ wind $\$ 495$ and odiners sreal is quiet and firm, with barrel lo:s roret 53.75 tost.
Gans.-Basinexs fairly active and tho goneral tono strong. Recuipts of rheat aro mose liberal, zibe stock of barley abows a decrease hrars has boon in good dersend. The ansentlod forling in Chicago for somo time han induoed bayers hero to hold oif. Tho trantscinaza repartod aro fow, bet a good deal has been booght outhido by our exportars, Rocomily car lols of No. 1 fall soid at \$1.07. No. 3 at $\$ 1.05$, Mo. 3 at 8LO3, zad goose at 9ie On 3rondes No. 2 fall sold at \$1.0G, and Wodraxday 5.000 busbels of tho ramo grado at $\$ 1.05$. Spring is also easier, rith prioes at tho close noms. nal at K1.0s for No. 2. Berlor has boou quiet on light reocipts. tbeso is a feit coquary Irom tho Coited Statea and ruand lote aro hold at an sdrance, zalow varo made on Friday and Sx:ardas of No. 2 at 71 ze. and No. 3 cxitra at 65 c and 6 Gc . The sasi for dajs trananetions Fero mado at Tic for No. 1 to 72 ca and 73 ca for No. 2 , a od at CGC
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