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Vol. I. No. 24.
Toronto, November 15th, 1882.
$\$ 1$ per annum, in advance.

## RURAL NOTES.

Tae Morning Post (London Eng.) strongly recomends farmers to keep their live stock insured. There is even more necessity for it in this country of numorous fires and violent thunder storms.

Tere Esses hoge closely resemblo the Suffolks, only the former are black, and the latter white both have small, fine heads, ears small and oreot; fine bones short legs, thin hair, but usually long and fine; both breeds mature early, and both make an excellent quality of meat.

Taz advantages of breeding from Polled rams are briefly summed up by a Missouri flock-master after nine jears trial of the plan. The atimals fight less, "are never fly-blown around the horns," are more conveniently aheared, and, what is of greater importance, " Leep easier and grow larger."
Ters loss on the Cochrane cattle ranche last finter is estimated at five per cont. and the increase in namber this season at forty per or at. The Company las the beef contract for the Blackfeet, Surcoes, and Stonies Indians at cight cents a pound. The Indıans get the hides, heads and other refuse of the animals besides.

The third annasl convention of the North American Bee-keapers' Association was held at Cincinnati, October 3 to 5. D. A. Jones, of Ontario, Cansda, was elected president for the coming year, and A. I. Root, of Medina, Ohio, secretary. The convention chose Toronto, CanBda, as the place of next meeting.

Tex neighbouring village of Becton, hitherto noted only for the production of honey, is all 880 g over the prospect of discovering coal oil, the indications of which are said to be many. At the present prices of oil, a flowing well in Beeton pould add sweets to the sweet. What could be more delightful than a land flowing with oil and honey?

Aw old farmer, speaking of the sirange oharBeter of the weather Fe are now having, stated a few days ago that such mild meather he never sam in Novembor. "Why, the other day," he continued, "I was going through a field near my house in which $I$ had growed corn, and there I found a hen sitting on fourteen egge. She evidently eeomed as comfortable as though it fare Septomber."
A. B. Aulen tolls the Rural Ner Yorker that leaving onls three or four canes to grow and bear frait from raspberries, blaclberries, currants, and gooseberrics, may do very well in clay, or quito
rioh losm, but it does not answer at all for a poor, sandy, or fine, gravelly soil, exocpt in the case of blackberries, and oven these had best be loft with half a dozen canes to grow together. With raspberies, eight to twelve canes to grow up together were found to do wall and bear abundantly.

There aro many faimers who have extra good butter cows and do not know it. Tl ay have poor pastures in summer, and no shelter and indifferent feed in the winter. In the house they have no convenience for making butter, the milk is set where there are no arrangements for keeping it cool in the summer, and in the living room, exposed to the odours of the kitohen in winter; and neither the quantity nor the quality or any index of what a cow can do is kopt.

Estisates of the harvests of the world for 1882, just issued by M. Etienne, an eminent French crop statistician, show that the yield of grain for the northern hemisphero generally has been the most abundant lnown since these reports were first collected. All over the world there has been better than an average harvest, with no deficiency reported either in Europe or Amerioa, and cheapness and abundance of food will be the fortunate lot of the poor for the next year.

Leacmed ashes are good for almost any crop, but should be applied with other fertilizers that contain vegatable substances, like barn manure. Thas applied on most of soils, and for nearly all crops, 25 cents a bushel would bo cheaper than commercial fertilizors. Fifty bushels of aahes spplied to an acre of land, in conneotion with two cords of good stable manure, would produce better results for most orops than 150 bushels applied without other fertilizers, or five cords of stablo manure applied with no other fertilizer with it.

A aenzarated French Agricaltarist, espeoially noted for his success in fattening sheep, when urged to divalgo his secret, replied: "Secret! I have none; it is only a question of fare. Induce the animals to eat abundantly by a large, ohoice variety, and good preparation of food; that is all there is to it." Too often we don't give stock all they will natarally eat. The secret of the Fronohman's success ought to be a valaable hint to our Canadian farmers to give all stock a choice variety of feed to obtan the best results.

X A Willarr, the noted dairy writer, died very suddenly of nearalgis of the heart at Littio Falls, N. Y., on Oct. 26. Ho was a voluminous Writer of agricultural topics and the most eminent anthority on matters pertaining to the dairy, in the Crited States. He mas the author of " Praotical Dairy Euaban3ry;" "Tho Practioal Butter

Book," and othor wurks. Wu have too fow firak class writers in agriculture to wa ablo to lose any one of them, the death of Prof. Willard will be regretted by a large carcle of fnendr and acquainsances in Canada, as well as in the United States,

Every farmer should keep a book in which to paste agricultural scraps. Every one in reading a papar will see a number of things he will wish to remember. He whll perhaps see suggestions the value of which hu will desire to test, or hint which he will want to be governed by on future occasions, and yet, after reading the paper ho will throw it down and will probably never see it again. In such a case all the valuable articles will bo lost. To prevent suoh a loss, every reader should clip from the papers such articles as he desires to preserve and remember, and paste them in a scrsp book. Such a book at the and of a year or two will be very interesting and valu. able.

Cuma leads civilized countries in finding a ase for its ants. Prof. Riley, of the Agrioultural Bureau, Washington, has received from Han Chow an account of a ourions use made of ants in that part of China. It seams that in many parts of ihe province of Canton, the orange trees are injured by certain trorms, and to rid themselves of these pests, the inhabitants import ants from neighbouring bills. The hill people, thronghont the summer and winter, find the nests of two species of ants, red and yellow, supended from the branches of various trees. The trees are colonized by placing the ants on their upper branohes, and bamboo rods are stretohed between the different trees, so as to give the ants easy access to the whole orchard. This remedy has been in constant ase at least since 1640, and probably dates from a much earlier period.

Ar the beginning of every winter we are treated to a series of dissertations, showing on how small a sum people can live. Dr. Dio Lewis was the prophet of this modern gospel of chespness. It is now many years ago that he found that a fullgrown harcan being can live, 80 far as food in concsmed, for eight cents a day, and as for drink, Nature supplies water gratis. This diet of economy was composed chiefy of beans and bresd. Lately Dr. Lemis has surprised himself with the discovery that tonts are better than houses to live in during the summer, if not all the year, and that the closer we lay to the bosom of Mother Earth the hardier and healthier wo shall bo. As a tent and bed of leares cost next to nothing, Dr. Lemis roald seem tu hare solved the problem of living su far as cheapness 28 concorued. In fact a person can become a pretty respectable barbarian for less than it costs to keep a oivilued dog.

## FARMI AND FIELD.

SAVING BARN-YARD MANURES.
As tho season is now at hand for accumulating manure for next season's use, a fow suggestions will at least bo timoly; and if but a single one will lead to more care than heretofore in preventing the washing and leaching of those in the open yard, one of the unnecessary wastes on the farm will have been stopped, and some good accomplished.
Any farmer whose barn-yard (in whioh the stray is stacked and stock is fed) is loosted on a steep slope, and the water from the roof of the barn is not conducted asmey by eavetroughs, but rushes down through all parts of the gard and flowe away to the nearest stream of water, coloured and enriohed with the most valuable part of the manure, may be a very neai farmer in many respects, but were it not for his olover sod, he would soon be compelled to " sell ont and go west." A level barn-yard, with raised and watertight sides, would add immonsely to the value of the yard as a manure-making and saving device. Better that the rater from the roofs and sheds be convoyed into a cistern for the use of stosls and moistening the manure in the yard, when necessary, than that its unnecessary use should rob the manure of its soluble and most valuable elements.
' A much bettor plan, where barns are ample sind sheds surround the open pard, and have eavetroughs to convey array the water that would otherwise wash away the wealth of the yard, is that of Mr. Von. H., the owner of large estates in Bohemia, who obtains the most profitable results in the following way: "The manure is not rethoved from the stables or sheds in which the cattle are kept nutil it reaches the height of about five feet. The straty for the bedding is cut into lengths oi about five inches, and thus it more resdily absorbs the liquid portion, and fasilitates the distribution of the manure in the furrows. The entire mass is constantly compressed by the wight of the animals, and thereby kept moist, while the air and consequent putrefaction are excluded, so that the sir in the stable is never tainted by exhalations injorious to the cattle. Atter aboat three months the manure is conveyed to the field, and is immediately covered in the furrow. It then quickly decomposes, yielding all its strength to the soil, being fully donble its nsaal value." With the exception that the wheat or other straw is not cut, this method has been and is prastised to a considerable extent in western Nery York, with the most desirable results.
This method is not saited to the horse atable, as the manure would be likely to hoat and become firs-fanged and spoiled. This heating tendency of horse manare can best be ntilized, as manures are asually cared for, by mixing it with that of the cattle, for then decomposition will be hastoned. Ordinarily, the best method is to have the floor of the horsestsble made water-tight and slightly inalined to the rear, so thei a gatter will conduot the urine to a sanken barral or hogshead. To prevent decomposition and loss of ammonia, a little sulphate of lime (land plaster) should be added every forr days, 8 it will prevent the escape of ammonis As the arine of the horse is rioh in nitrogen and potash, and deficient in phospherio acid, a small shopalfal of some commercial manure, containing salphate of lime and phosphoric acid, can be substituted, in which case it will not only fix the smmonia, but will, by the sadition of tho phosphoric acid, become a complete fartilizer.

- Manure, in some form, mast be put into the soil, if fe expect to get out grain. The more of the kind of plant food neoded the more grain.

Manure is the life of the land, and that method of farming is the best, in the grain-growing States, which involves the production of no orope that will nat be direotly availablo in fattening stook This is the best and most practical method of condensing the grain and root orops into the smaliest compa3s, thus returning to the producer the most money for the lesat outlay. It is by the adoption of such a system that the farm and tho farmer are alike onriched. The soil must bo studied and experiments made, in ordor to dotermine its wants, and then-if other speoial fertilizers are needed in addition to rich, barn-yard manures, they oan be supplied without lose. Study and experiment can alone settlo such questions. "Guess work" is of no avail ; for the foundation of profitable farming is accurate knowledge.
W. M. K.

## THE SPARROWS.

The individual who in ignorant pursuance of a hobby introduced, or helped to introduce, the English sparrow into America may comfort himself with the idea that he has brought upon his country an infliction which will cause his name to be held in detestation by every farmer in the land. When this wioked, tyrannical, noisy, mischievous and destructive bird was first introduced, I tried in vain to uthor a warning through a popular agricultural journal. Bui as that would have been going against the current of popular feeling, just then, my suggestions were suppressed, and instead the little pest was praised and puffed and good points attributed to him, which ho did not, and never did, possess, while all his avil habits were ignored. It is almost certain that the only service which he was believed to have parformed was in no case his work, but the result of natural agenoies, which are always operative to reduce the number of insect pests when they, at times, becomo unusually numerous. The sparrow was brought here to destroy the meqsuring worms which infested the trees of the Eastern cities. He came, and 'the worms went. And it was supposed the sparrows devoured them. The present year wo have had a perfect deluge of worms, and the trees have been so overwhelmed with them, that thousands have been deprived of their leaves. These are the fall web-worms, which lasve their webs when fully grown and spread everywhere. They devour the leaves of elms, poplars, willows, plums, cherries, apples, Yirginia croopar, and other trees and plants, and they have swarmed over houses and into them, so as to have been swept out with the broom. But nary a sparrow touched a worm.

On the contrary, they have been engaged in their natural work, which is grain-eating. They have broken down tho wheat and rye, and devoured the grain; they have flocked apon the shocks, aud have torn the grain from the ears; they have torn open the corn-haske, and have devoured the milky grain, and now that the corn is in shock, they may be counted by the hundreds in the corn-fields still stealing the grain. This is their old trick, and English farmers have been ased to hire boys with guns and men with nets to destroy the pests by thousands to save their crops. And we must soon do the same thing.
Legislatures have passed laws protecting these pests, arged thereto by parsons of the same type as those misguided and ignorant ones who have procured larss by which farmers aro prevented from selling pure srreet skimmed mill, under any circumstances in the cities, to the infinite loss and detriment of thousands of poor childron who would find in it a wholesome and cheap article of food. The farmers should insist upon having these laws abolished. Sparrores aro not insectoating birds. They devour the bads of trees in
wintor, and in summer dovour fruit, grain and seeds. They bro, therofore, out of the list of usoful birds. They aro, howovor, vory goud oating. Thoy are almays plump and fat, and are as good game as the reod birds. They are sold in the English and Fronoh markets, and are accounted a dolionoy when outombed undor tho crust of \& pie. It would be a pity to turn them to this nso here, and as farmors aro undoubtedly justified in saving their crops from the despoilers, thoy onn not only do this but secure an agreoable variation from tho frequent pork and bacon by shooting and trapping them, and having them sorved up in pies, or ronsted in the oven.-Cor. N.Y. Times.

## HOPS AND BEER.

The hop orop is short, and the price of hops has risen within a few months in a most remarkable if not unprecedented way. A yearago they were to bo had in this market at 16 to 22 cents per pound for choice, and 10 to 15 eants for yearlings. In Maroh of the present year the guotation for first-class was from 20 to 24 cents, and in June last it had not gone beyond 21 to 22 cents for medium, and 26 conts for oloice. At that time the rise began. July sales were made at 30 cents, nud dealers were asking 95 cents in July, 40 in August, and 40 to 47 in raid-Soptem. ber, while at the end of that month, owing to intelligence of $\Omega$ shart crop everywhere, 50 conts was the g.ing price for No. 1. In October the price offered on this market reaohed 60 conts per pound, and it was thought that prices had beon forced too high, and that a reaction must come. Still the article rose, and sales have been mado here recently at 75 cents per pound, while in New York the quotntion for finest quality is $\$ 1.10$, and cable bids of $£ 25$ and $£ 26$, per bale, were received from London up to last Monday, without takers, and 18,271 bales have boen shipped this season to England. The market is bare of them here, becanse the growers will not sell, and speculators who have scoured any are holding thom still higher.
Bavarian hops advanced in price in a still greater ratic. This state of things, as was natural, has affected the price of ale and lager beer. A combination was formed among the Toronto bremars to advance prices in October, and Haliiax brewers followed suit, advancing the price of XX ale and porter to $\$ 20$ per hhd., XXX ale and porter to $\$ 24$ per hhd., "to ensble them to meet the extra cost of material rather than reduce the quality of the beer." Shortly afterwards, gays the Acadian Recorder, the Toronto compact was broken, and so the newly settled Halifax prices could not be maintained. In spite of the seen competition between Oanadian browers, however, so marked an advance in the cost of hops could scarcely fail to enhance prices of beer.

While on the subject, we cannot help refarmng to the numerous cases of which wo have heard, wherein country hop-growers or holders have broken faith with hop-buyers in this city and elservhere in respect of contracts made before the rise. Ono dealer contracted with a grower in September for hops at 40 cants, and with a manufacturer to sell the aame at an advance of 10 or 12 cents. The gromer refused to deliver, and the dealer had to pay 7 cents per pound more than he. sold for to keep faith with his customex and fill his order. For this excess, suit has been properly entered. In another oase, an extensive brewer agreed with a grower for a largo lot of domestio. The time boing up and no delivery mado, the set enquiry on foot, and found that the grower had sold his hops to another hrever at some cents per pound adrance. A third cass is instanced to us in which a bargain made, and money paid by the
dealer on account of it, was abruptly repudiated by the farmer. Such gross faithlessuess as this is a soandal. If auch peoplo dosiro to make all the money which the riso in prico imphes, let thom hold on to thoir hops until thoy ronch a dollar and thon sell. But in the name of common honesty let thom not disgrave themselvos and embarrass denlers by repudiating bargains olearly made. - Monetary 'rimes.

## VISITING GOUD FARMS.

Tho many fairs that aro hold in the country tend muoh towards advanoing a far more onlight. oned agrioulture. We have already pointed out some of the advantages to be gained by a careful study of the exhibits, and the importance of tat. ing an setive part in theso fairs. Another suggestion to the same ond is here offered, which, if acted upon, will supplement the work of the fair and do muoh good to all progressive farmers. It is a duty of every farmer to visit yearly some of the best farms in the country, and there gathor practical lessons in improved agriculture. There is no method of learning any farm subject eq:al to being on the firm where it is practised, and having it explaned by the one who has made it a success. It may be the way of feeding stock, or a plan of preserving ronts, ensilage, or other fodder. A farmer may contemplate a syotem of underdrains for his wet fields, in this case it would be best to make a visit to some farmer who bas thus drained his farm, and gain from him many valuable hints and suggestions in this important work. Such visits nut only give new ideae, but are a wholosome recreation, and many a farmer Who at first thought may say, "I cannot afford it!" will find by experience that ho has spoken too soon. Take a day to go and visit some one of the best farms in the county, and this will open the way for further viats and a wider knowledge of the best methods of farming.

## A LITTLE FARM WELL TILLED.

Every Saturday during the summer and fall, and frequently at intervals throughout the weels, may bo seen a smalled-sized, wuscular hittle man of somewhat sallow features, dark oyes, and small chin whisker, drive on to the Lrondon Market Square, he and his boy scated on an immense waggon box, well filled with the vegetables of tho season. Mr. Abel Steele is Fell-known to the Directors of the Western Fair and all tho surrounding county fairs, where he never exhibits his mammoth specimens without getting a host of prizes. At the late Western Fair Mr. Steele took ten first prizes out of fourteen entries. His farm, situated is Lobo, near Melrose, contains only fifty acres, part of which he keops in bush so as to supply himself with firerood and fencing timber. He also reserves a portion for hay, pasture and cereals. The romander he cultivates for vegotables. Whon Mr. Steele, a for years ago, contemplated tho purchase of this small farm, some of his friends adrised him to have nothung to do with it, as it was nearly all a tamarec sFamp, Mr. Steele carefully exammed the soll and found it of the stamp-a thick allumal deposit of unsurpassed fortility, a great portion of which might be accounted for, but a large track thereof would almost puzzlo a geologist to analyze. Mr. Steele affirms that after digging uhree feet down in some places lo comes on an inexhaustible supply of shells and a mistare of apparently decajed regetablo and animal matter. To this, together with tho adoption of a thorough system of drainago, ho attribates his secrot of success. As he keeps day and date for everything he does on the farm, the follorring will shom the oparations or net returus for the season so far:

Total number of nores ploughed twenty-five, from which ho took 21,000 cabbngee, 4,000 onuliflowors, 800 bushels of potatoos, 1,000 ineads of colery, 1,000 molons, 180 bushels of whent, 180 bushels of barley, 140 bushels of onts, 1,200 dozen cobs of corn, 160 bushels of onious, 150 bushols of tomatoes, also carrots, turnips, etc.. eny 800 bushels, and three tons of hay. Besides ho keeps a number of cattle, pigs and poultry. His hired Lelp averages oue and-a-half hande all the year around. His family is small, but they materially assist him. His cabbage crop aloue will not him nearly 81,600 . The total value of his orop is \$3,000, besides a quantity of live stock ho will have for enle. This shows what good managemont, earnest application and sterling industry can do on "a little farm well tilled."

## PASTURES.

Every pasture should be provided with shade trees, or, at least, some protection against the summer's sun. A few boarils on a temporary frame will always secure the last. Excessive heat, by oxhausting, and sometimes siokening tho animal, materislly diminishes the effect of food in promoting the secretion of milk and the growth of hesh and of wool.

The National Live Stock Journal gives this advice. "On farms so arranged that the stock can bo divided, allotments being made to difforent pastures, it is wise to hold a pasture lot in reserve, giving it a ferr weeks' rest during the middle of the season; then as it is made apparent which animals are likely to lag behind in the matter of taking on flash, they should be separated from the others and placed in the reserve pasture lot. This division will answer the double purpose of giving the thin animals access to the best grass, at the same time placiug them more easily under control, and separated as they are from the others, it is more convenient to deal out special rations of food. The pasture lot for such a purpose should be upon rolling lend, if there is such, for the well-known reason that the grass on suoh land is more nutritious, and has a flavour more acceptable to stock than the coarse and rankgrowing grass of low lands. It is also easy, when stook is so divided, to give them other attentions not possible to be dealt out if they remain in one lot. In this connection may be named an occasional, or even daily, ration of newly out up corn; or, if the grass is abundant, half a dozen or so ears of new corn in the ear, at noon time, not omitting the usual ration of ground feed at the customary hour for giving this. So, also, a little extra observance in tho matter of salting may be indulged in with advantage.

Pustures should not consist of one kmd of grass ouly, because (1) stock prefer a variety, gongg from one to the other, thus keeping therr appetite whetted, (2) because the grasses haping different periods at which they mature, oue hind having passed its best stage, another comes to its best, and takes its place, and (3) lecause grasses vary in the degree of standing wot and drouth; hence, if one sort is injured by vicissitudes of the weather, another may be to an equal degree bonefited. It should be more the practice to stimulate pastures with special manures. This is as necessary a thing to do as to foed a particular anmal freely because it is falling off in flesh. Among the best stimulants to tardy-growing grass is nitrate of soda; and this may be used freely on pastures without great outlay, and with prompt and bene ficial results.

A mosecy but sensible Philadelphia girl, who never wore a big hat at the theatro, has been married thren times, and on each occasion married rich.

## CREAM.

Thene is merit without elevation, but no elevation without merit.
Treth is as impossible to bo suiled by any outward touch as $\Omega$ sumbeam.

As soon as te divorce love from the ocoupations of life wo find that labour degenerates into drudgers.

Let every one sweep the drift from his own door and not busy himself about the frost on his neighbour's tiles.
"I'a sadest when I sing," warbled a young lady at an ovening party; and tho other guests said:-" So are wo! so are wel"
Turae is, perhaps, no ono quality that emu produce a greater amount of mischiof than may be done by thoughtless good nature.

Dreany young lady in a railway carriage to oheerful and healthy looking young mau.-"Oh. sir, are you msthetio?" "No, ma'am; I'm a butcher."
A oentleman had a cat which had five kittens. On ordering threc of them to be drowned, his little boy said. "Pa, do not drown them in cold water. Warm it first; they may catch cold."

As exchange advertises thus: "TVanted, a modorn young lady's forehead. The editor, not having seen one for several years, is willing to pay a fair price for a glimpse at the genuine old article."
For the best results there needs to be the long. est waiting. The true harvest is the longert in being reached. The failures come first, the successes last. The unsatinfactory is generally soonest seen.
A Lexington (Ky.) youth, who went to work in the country, wrote to his girl, a June gradnate, that he was raising a calf. Imagine his feelings when the girl replied: "I am glad you bave begun to support yourself."
Tae economical side of a woman's character shines forth with raduance when she succeeds in fastening an eighteen-inch bolt around a trentyinch waist. Her justifiable pride in making both ends meet deserves condemnation.

Nor long since a family moved into a village out west. After a week or so a friend of the family called on them and asked how they liked the locality. "Pretty well." "Have you called on any of the neighbours yet?" "No; but I am going to, if there's any more of my firerrood missing."
A little girl who ran home from school, all out of breath, said: " 0 , please, ma, may I get married and have a husband?" "My child," exclaimed the astonished mother, "don't let me hear suoh words from you again!" "Well, then, may I heve a piece of bread and butter and go out to play in the back yard?"

A wouns will take the smallest drawer in a burean for her own private use, and will store in it dainty fragments of riblun and scraps of lace, foamy ruffles, relret thinge for the neck, bundles of old loveletters, pieces of jervelry, hankerchefs, fans, things that no man knows the names of, all sorts of fresh-looking, bright little articles that you conldn't catalogae in a column, and at any time ske can go to that drawer and puck out any one of them she wants without disturbing anything elso. Whereas a man having the biggest, deepest, and widest drawer assigned to him, will put into it a couple of socks, a collar box, an cld necktie, two handkerchiefs, a pipe and a pair of braces, and can't shat the drawer without learing more ends of things stioking out than there are things in it,

## GARDEN AND ORCEARD.

## INSECTS INJURIOUS TO SMALL FRUITS (Continued).

Another insect attaoking more particularly the black and the red currant is the Currant Geomotor or measuring-worm (Ellopin ribearia)-see Fig. 61. As to its charncteristios and resistance to mild methods of trestment, Mr. Saunders s凤ув:-
"It is a spotted larva about an inch and a quarter or an inch and a half long whon it is matured, a great feeder, and a muoh moro difficult insect to destroy than the saw-fly. Hellebore, which mill promptly destroy tho saw fly, will have very little effect on the geometer. There is something very robust in its constitution, whioh enables it to resist the action of this poison, and it requires to be used much more strongly, and oven then it will not always prove effectual. I have found that Paris green is much more effectual, but it is undesirable to use this poison after the fruit is formed. The insect appears very early, and if the bushes are sprinkled with a solution of Paris green in the early spring, before the fruit is formed, I think there is no danger attending its use. Still, if hellebore and Fater, nsed of ndditional strength, will answer all the purposes, I should prefer it to Paris green. This insect has a habit of dropping from the bushes when they are struck, and sutspendiug itself by a silken thread, and then, with a stick, you can gather a number of these threads and dran the insects together and trample them under foot."
The Spinous Currant Caterpillar (Grapta progno), a pretty but not ofton very hurtful butterfy, and the four-striped plant bug (Capsus linearis), which punctures the leaves and so stunts the growth of the bush, are noticed. The only known remedy for the latter is the old-fashioned one to " oatch him and kill him."

The Gooseberry Fruit Worm (Pompelia grossi-laria)-Ses Fig. 62-which attacks the interior of the goosoberry, is thus described:-
"The parent is a small narrow-winged gray moth, which when its wings are expanded mea sures nearly an inch. It spends the winter in the chrysalis state, in the ground, and early in the spring the moth appears on the wing; having escaped from the ohrysalis about the time the gooseberries are formed, and growing rapidly, this moth doposits an egg hera and there on the fruit. The egg hatches, and the young larva eats its Way into the fruit, and lives in the interior portion of the gooseberry, and in a very short time the berry it feeds unon becomes discoloured, and heving partially consumed it, the insect takes to another, and finally it draws together, with silken webs, a cluster of three or four berries, hiving in one as a sort of home, from whi.h it issues to feed on the berries about it. When it attains a growth of about three-quarters of an inch, it descends to the ground, enters into the chrysalis state, and remains there until the following spring, When the moth issues to enter upon its destructive mission. There is only one broud of this insect during the year, but it is getting very destructive, sometimes destroying as much as twenty-five or thirty per cent. of the gooseberry crop in some sections."
Of artificial remedies for the frait rorm, Mr. Saunders says:-
"By jarring the bushes you can colleot this larra in the esme way as you can the gooseberry geometer. It drops to the ground, rotaining its hold on the bush by means of a silken thread, by which it climbs up again when the denger is past. By draming the thresde together with a stick, you can sometimes readily collect a number of specimens of the larva. I havo found that by sprinkling the bushes with air-slacked lime, sbout the time that the moths appesr, they can be kept almost entirely free from the sttacke of this insect. Where the lime is used the egge do not seem to be deposited on the bernes, as insects have a great apersion to this sabstance. But suoh a
remedy does not destroy the inseot ; it only drives it somowhere elso."

Tro species of currant burer, the Imported and American, are noxt in the list, and dosoribed as follows:-
"Tho imported currant boror ( Etioria tipuli. formis) is a small wasp.liko moth rith transparent wings and a body banded with gold. It flies about very aotivelv in the middlo of the day, when the sun is shining brightly. After pairing, the fomale deposits her egga upon tho twigs, generally one at the base of the bud; whon this 18 hatched, the young gru' bores into the bark of the stem to the centre, and works up and down, devouring the substance of tho stem, and finally whou it attains its full growth, eating a holo
curbait aeometer, on measurino wons.-Ello-


Fig. 61.
gooseberry prutr morm.-Pémpolia grossularia.


Fig. 62.-Moth and Cocoon.
the mpported currast borer.-.Eyeria lipuli-


Fig. 63.
the amerucan currant borer.- Psemosceres super-


Fig. 64.
almost entirely through the current stem, leaving only about the thicinness of tissue paper of the bark unbroken; and inside of this opening it forms a chrysalis, with the head of the chrysalis pointing to the thin layer of bark. When the chrysalis is about to change, it has only to break through this thin layer of bart and escape. (See Fig. 63.)
"The other species, the American currant borer (Psenoscerus supernotatus), has similar habits, although it belongs to an entirely different family -the family of long-horned beetles. It deposits its eggs in the same manner as the Egeria; the larva go through all their ohanges within the stem of the bush, and finally omerge in the perfect beetle form by eating their way through the stem. The remedy for these two pests is to remove, at the end of the scason and during the winter, all those stems which manifest any eymp. tom of being injured, and burn them. In that way you destroy the chrysalides, and thus lessen the danger of their increase." (Ses Fig. 64.)Report of the Ontario Agricultural Commission.

## DANDELION CULTURE.

Dandelion oulture is bosoming a common industry with Amorioan gardonors. A Now Hamp. shire paper says concorning a garden at Manohester, in that Stato: "Great reliance is placed upon good dandelion seed of homo production, and improved by selection. Enormous orops of this groen aro grown, and some days as many as sixty bushols are sold. The past season a singlo plant weighed $8 \ddagger$ pounds, proving that good seed and high cultivation will tell oven in a dandolion. Dandelions for open-air oulture are sown botwoon the rows of beets oarly in June. The beot rows being only twolve inches apart, with tho dendelions betwoen, make olose work at first weeding, but as soon as the beets are large encugh every other root is taken out and sold for greens. The romaining rows are thinnod when large enough for bunching, and thus the second crop goes to market. The third orop goes off in the fall-the table beet crop-and still there is another left to occupy the ground. This last is the dandelion crop, and will be sold early uext season, and then followed by one or more of the rotation. Under glass dandelions are follored by lettuce, and in some instances tomatoes, and then cuoumbers follow lettuce. We noticed some of the finest specimens of lettuce iere, showing a romarkable tendency to full heads even when growing up for seed, and we conoluded that some of the plants would outweigh the $y f$ pound dandelion. This variety has been produced by crossing two wellknown sorts, and he has secured a remarkably large, thick, and finely ourled lettuce."

## protecting trees in winter.

Many frnit trees are lost every year for want of a little care at the proper time. Many young trees are destroyed by rabbits, and mans almost every winter by the heat of the sun in warm days torrards spzing. Frequently the rays of the sun, shining on the south side of the trees, will take out the frost, and, if nesr spring, start the sap, and probably in a day or two it will turn very cold, this sudden thawing and freezing will cause the bark to crack up, and perhaps peel off the next summer, and very frequently kill or cripple the tree. A preventive is to tale what is called "straw board," or the thick paper used under the celings in building houses, or to take tin, or basswood, or hemlock bark, and put around the tree, and let it extend protty well up around the body of the tree, so it will keep the sun from taking the frost out. When setting trees, thoy should be marled, so that the side of the tree that stood to the north in the nursery is set to the north When put in the orchard. This will also save many trees.-Cor. Country Gentleman.

## WINDOW GARDENING.

The season is approashing when the care of the house plants will demand attention of many housekeepers. The following directions for watering plants will be of advantage in keeping them in a healthy condition. Take carbonate of ammoris four parts; nitrate of potash (saltpetre), two parts ; pulverise and mix well. Put one dram (one-eighth of an ounce) of this powder into a gallon of rsin water. Use this for watering plants. Give them good sunlight and not too muoh heat, and plants will keep green and fresh.

Lantanas require rich, strong soil, a liberal amount of water, plenty of sunshine, free circulstion of air. They are easily gromn from cuttings stuck in moist sand in a warm place. It is hardly worth while to attempt the growing of cattings in the fall or pinter.

## BEES AND POULTRY.

## SEASONABLE IIINTIS.

The American Agricullurist for November contains the following:-
A subsoribor asks if augar oan be safely fed to bees in winter. There is no other food so good for bees as pure sugar. The granulated form is best. All beokeopers that havo fed this sugar for wintor stores are agreed that it is evon suporior to honey for boes. This is owing, doubtloss, to its composition, as it contains moro cano sugar, and also to the absence of pollen, which is to be found in all honey. While pollon generally does no harm to bees in winter, it is not good in somo cases and may be the cause of fatal dysentery. Dissolve the sugar for feeding in an equal buls of water, and heat until it boils, and when cold it is ready to feed.

It will be remembered that many bees were lost during the winter of $1880-81$, from neglect. They were oaught by the exceptionally early season. They need at leaet 80 pounds of good food per hive, and they should be orowded upon just enough frames to contain them, by using division boards. If the bees are to be packed, this should be done as early as October 1st, and if ohaff hives are used, tho packing above and at the onds of the frames should be added at the same time. It is always best to have the fine chaff or savedust in sacks. However wo winter, whether in chaff hives, or in the common hives with chaff paoking, or in cellars, it will always pay to pack above and at the sides of the frames. The hives should be put into the cellar as early as November lst, before the severe weather sets in. The hives should be dry when set in, and, in the removal, disturis the bees as hittle as possible. When in the cellar, remove the tops of the hives, but not the chaff pillow. The entrance should be left open.

## honey plants.

White clover, buckwheat, rape sud alsike, recognized as the most valuable honey plants for cultivation on a large scale, and it is stated by beekeopers that the honey furnished by these plants pays for all expenses of cultivation. The Spider plant, Cleome pungens, and Figwort, Scrophularia nodosa, a tall, rank-growing herb, with small greenish purple flowers, growing wild in woods and damp places, are also highly recommended. Among garden flowers Mignonette stands at the head of the list, at least bees appear to be very fond of it, and "Mignonette Hones" is quoted in the market lists at a higher price than any other. Why not try "Wild Gardon Seeds? ' Among such a variety of flowers, surely oven the most fastidious bees will find something agreeablo to tileir taste.

## HENS IN CONFLNEISENT.

I have had an average of aixty Plymouth Rock fowls that have laid in six montbo' time 5,663 egge, an average of ninety-four egge per hen, and nineteen of them were set during the time. Thoy have never been out of their pens since I put them in in November, and they never will antil they go to the block to have their heads off. Thoy are divided into flocks of imenty, each flook

Lanving 100 square feet of house and 800 square foot of yard room. I have had flooks of treenty and forty that had free range, but nover could got so high an average as when leept yarded in flocks of twenty. The cost of keeping was loss, and the number of eggs much less, when they Lad their liberty. I cannot givo the cost of keoping, ns 185 chictsons are fed from the same grain bins.
My flock has consistod of just fifty hons in July, and they have laid 910 oggs during the month, which I think is good evidence that confinement agrees with them. They are provided with all the green food they oan oat, and are given a fow ground beef scraps daily, but never any milk. The chickens hatched by the nineteen hens were divided among thirteen hens, nine of which began laying when the chickens were three weeks old and weaned them a ferw days later, ovidently thinking it was better business to help fill the egg basket than brooding young ohickens. As I manage my laying hens, it makes
the honey. Our honey room is as dark as any. thing oan bo mado to be."

## BEST SIZE FOR A COLONY IN WINTER.

The Country Gentleman gives the following on this subject: "Considerable controversy has taken place with regard to the best sizo for a colony whon put into winter quarters. In my estimation, six Langetroth frames, well covered with beos, answor as well as eight or ten, particularly if in a chaff hive; they will be found as strong in the spring usually as the larger ones. I would myself profer four or five framea crowded with boes, with a young laying queen, to twico as many with a two-yoar old queen-the results on the first of April next year would be much more satisfactory. On the final oxamination, before putting the bees away for winter, I profer to take away, if necessary, somo frames of their fallgathered honey and pollon, and introduce into the midule of the hive two frames of empty worker comb; then feed the bees liberally pure sugar ayrup (made of ' coffee A' sugar and water) until those frames are filled and sealed over.
"The bees will come out clean or, brighter and more bealthy in spring on sugar syrup than on any fall honey they may gather. The frames removed should be kept in a warm, dry room until spring, and then be fed back to them for brood-rearing, after the bees are able to fly and void their feces. Pollen consumed in winter is now soknowledged to be the main cause of dysentery, and by removing the frames filled or partially filled with pollen, and sub. stituting pure sugar syrup, the bees can live for months without any necessity of leaving their hives, and come out in spring clean, bright and healthy."

## THE SCRPLIS HONEY.

Let all remember to keep their honey, whether extracted or comb, in a dry warm room. It is best to keep the extracted honey in open vessels, and if to be shipped, in barrels or kegs,
me a good deal of hard work, but the profit is large, which suits mo better than little work and little pay.-Poultry Monthly.

## CARE OF COMB HONEY.

J. L. Bowers writes to the Maryland Farmer the following on the care of comb honey: "Do not, on any account, store honey in a cellar. The dampness causes it to sweat, and then the cappings will break and you have a lot of rained honey. Our honoy room is in the second story of our house, and will hold two tons. It is $6 \times 10$ feet, snd nine feet high, with tro doors; one on each side; one opening from the hall; the other opening into a room over the porch. This room has one window. Here we put our hones first to lof it barden, keeping this room light. After exposing it to the light íor aboat two weeks, we place it in the honey room. Never, on any account, place more than tro boses on top of one another, but place sbelves above each other on the order of a library. If little red ants bother honey, place the honey on a bench and put each leg or foot in a pan of vater, and my word for it, if you teop watar in the pans, no ants will bothor
these latter sbould be costed inside with parafine, or beeswas. Let no one be in a hurry to sell his honey. It should be thoroughly graded before it is sent to market. No pains should be spared to have the honey look neat, which will largely increase the price it will bring. In some parts of the country the crop has been very good, in many others it is a total failure. It is to be expected that good prices will prevail.-American Agriculturist, for November.
"Faisy Freld," aathority on poultry matters, says: "The Hamburge will lay more egge in a year than any other breed in existence; the Cochins and Brahmas make the best mothors, and the Plymuath Rocks are among the best, if not indeed the very best, for market forils. If you want a fowl for all purposes, take the Plymouth Rocks; if you want to get the most egga, without regard to size of fowl or eggs, take the Hambargs ; and if you want to get the most meat to sell by the pound in the fall, take the Brahmas or Cochins. Hamburgs are non-sitters, and will not bear confnement 80 well 83 the large breeds. Leghorns, Houdans, La Fleche, Black Spanish, and Polish, are all good layers, non-sitters, but, like Hamburge, Frill not do their best in confine. ment."

## HORSES AND CATTLE.

## BLANKETING HORSES.

There aro many farmors whe almost wholly neglect the use of horse-blankets, while, on the other hand, there are many others who scem determined to lose no opportunity to get thair horses covered with blaukots. As the truth in argument is frequently foumd botweon tro oxtromes, it is also probuble that in this mattor an intermudinte course is to bo desired. The proper uses of a horse-blanket are to promoto tho comfort of tho horso and prevent it taling cold. That many people keep their horses covered in order to keep thoir hair smooth and mako them look a little better than they otherwise would the writer does not question. But this 28 hardly a proper use of the blankot, and cortainly is acct to bo recommended.

Too much blanketiug is almost as bad for a horse as too littlo. Nature provides a covering for the Lorse, and any interferonco with its provisions should bo judiciously made. When horse ownors go to such lengths as to shear their ammals, thuy may well be allowed to blanket them; but it does not seem as if it would promote either the health or comfort of a horse to have his hair romoved and then be covered with a blanket. If auy horse-owner thinks differeutly, let him havo his own hair cut close to his head, and wear a hat when not at work. One practical trial of this nature will be sufficiont for a lifotime.

However, as but few farmers have their horses sheared, it is not necessary to dwell on this point. The question concerning which farmers are most interested is whother, during the cold season, ordinary farm-horses need blanketing. If the stables are boarded as closely as thoy should be, it does not seem at all necessary to blanket a horse, unless he has been at work. While he is moiely standing in the stable he does not need a blanket, any more than a cow needs to be covered. If the barn is so loosely boarded that a horse cannot keep comfortable while standing in it, the ownor ought to ropair his building. His call is to furnish boards rather than blankets.

When the horse has been driven any distance or has got warm rhile at work, he should have a blanket put on whenover and wherever he stops. Even if the stop is to be but a short one he should be covered. Many a horse has been serionsly injured by standing a ferr minutes in the cold after having been driven.
When put into a stable, unless both stable and weather are quite warm, a blanket should be put on for a short time; but should not be allowed to romain a great while. When a horse has been exposed to a cold rain or has been out in a suowstorm he should be rubbed dry with strans or hay, and a blauket put on for an hour or two. But, unless the horse has long been accustomed to it there seems to be no possible advantage in keeping him constantly covered with a blanket while he is doing nothing but standing in a barn.
Julgment is uceded in selecting blankets as to thickness. With the design of getting the best one I could find for a reasonable price, I once bought a very thick aul heavy blanket. I have often bean sorry that I bought cne so heavy, since during much of the time it is wholly unsuitable. In the apring and fall, when the weather is not extremoly cold, and also when the horse is in a Farm stable, the blanket isvery much too thick and warm. If I put it on when the horse is sweaty or wet with rain or snow, he does not dry off well. There are but very few times in the course of a year when thia beavy blauket is juat right. While a of re lium thickness is much better than ono


## STALLFEEDING CATTLE.

In a long article to the Now York Tribune, Mr. Houry Stowart anys that it is evorywhore admitted by stockmen that the profit gained in rearing cattlo for marbet is seldom less than 40 per cont. yearly, and figures are given to show that 75 per cont. is ofton realized. This is the rosult of feeding oattlo from birth to maturity. There is a still grenter profit in foeding a thin steer, costing 5 cents a pound alive, until it is worth 7 conts a pound ; because there is not only a gain by tho inorease in weight, let us say of 200 to 800 pounds in threo months feeding at 7 conts a pound, but also upon the 2 conts a pound of tho whole weight of 1,000 pounds or more. This is, on the whole, equivalent to a muoh greator profit than could be gained from the salo of the crops that are fod. Many crops are costly, but costly orops cannot be produced under any other system than that of stall-feeding. Pasturage is not required, and as one aore of roots, with stran and 'inseed and cottonseed menls, will feed five head of steers for 160 days, the economy of land is very great, and root-growing is the key to tho Wholo business. Tho bulky and least saleable crops are changed into valuable concentrated products, and at the same time there is roturned a large quantity of valuablo manure. A calf represents really more valuo per pound than an animal two or three jears old, beoanse it contains the initial force, so to speak, which brought it into existence, and a pound of flesh can be pat into a calf at less expense for food and care than upon an older animal. It should follow, then, that these calves are disposed of by their first owners at considerably less than their value, and could be fed and reared to maturity with profit. Stall-feeding is applicable to the homo-bred or purchased animal, and filling the stalls with oither, and feeding to them straw and corn-foduor, which would be otherwise wasted, represents for each ton so many pounds of valuable flesh or fat, or, at least, so much heat and life-sustaining clements as will release the richer foods from the duty of merely sustaining life, that they may be dercted to the more productive offect of making flesh and fat. Winter feeding of stook gives employment to labourers who would otherwise have but little to do, and the preparation of cutting the feed and cleaning the stalls, entail but a small cost on that account. Tlie system is thus more economical than might be supposed.

## MISMANAGEMEVT OF BULLS.

There are two very common mistakes, each about equally pornicious, one or the other of which will be made by a good many farmera who have resolved to raise a better class of cattle by the use of a thoroughbred ball which has been, or rill be, bought at what is considered a tolerably high price. To one man, what is thought a tigh price may be $\$ 50$, and to another it may be $\$ 500$, but they will alite have a lively appreciatiun of the cost, and exalted opinions of what is to be accumplished by the new departure. One man will, with a generous spirit, take his nusp purchase home, tie him up in the barn, and provide him with the best the market affords-say plenty of corn-meal and gool hay, in fact with every luxury except plenty of exercise. The result is the bull grows fat and sleek, but soft, slaggish, unrealiable and without that hardy vigour ho should possess if it is io bo stamped upon his progeny. He will be fair to look upon, bat the chances are that so many of the cows he has been regularly serving through the season will fail twhave caincs that the owier will be in much of a quendars as to whether the investment has rually paid ur tho value of his herd been much
onlanneed. Another man will turn his handsomo young bull-porhaps desocuded from a long line of fine eattlo that have beou most carcfully reared -on the raugo with the herd, to rough it as best ho may, without grain of any sort, whore his strength is likely to bo exhnusted muoh more in ouo day on a single cow than would bo necessary in siring a dozen oalves by one servico at a time, at propor intervals. The result in this caso is, the bull soon becomes a wroois in every way, whilo such oalves as he gets are by no moans what the owaer expected, and a largo porcentage of tho cows-like those bred to the pampered bull-do not have calves at all. To the farmor who nas resolved to rabe scrubs no longer, and for the first time invested a share of his savings in a thoroughbred bull, such an outcome is very dis. couraging; ho fanoies he has had experionce with fino stook; that it is too delicate for him ; in fast, " not what it's ornoked up to bo;" and after, perhaps, another year's unsatiefactory trial he is willing to take the best price offered for what is loft of his "fancy" bull, and fall back on tha ::ea of one of the old sort, that he knows is tough, and sure as taxes. These mistakes, that are being committed all the time, have an immense influonce in retarding the improvement of our cattle, and are all the outgrowth of mismanagement. A young bull should not be kept tied in the barn, and staffed with meal and oil-cake, nor jet turned on the common, night and day, to run with a lot of cows. While he should have to eat and drink what will make him grow vigorously, he should also have plenty of exercise, and not be allowed to serve a cow more than twioe, and, ordinarily, one service will be sufficient. If he can be kopt in a pasture in summer, that is his proper place; but at all events he should neither be ied to excess nor starved ; rightly managed, he will be capable of much valuablo servico, and return $a$ bounteous interest on any reasonable cost.
We understand, of course, that the same systems that should be pursued by the average farmer are not wholly applicable to the herds and ranches of the western plains, and our remarks are intended more especially for the former.Chicago Breeder's Gazette.

## WHAT IS A GOOD PEDIGREE?

Whai constitutes a highly bred animal, in the truest sense of the word? The answer will be: One with a first-class pedigree. What then constitutes a good pedigree? To this the only sensible answer is: One, all of whose ancestors for several generations back have been pre-eminently distinguished for excellence ic the most desirable traits of the breed to which it belongs. The farther back this genealogy of good animals oxtends, and the more uniform the quality of the ancestry, the better; but the more immediate the ancestry in any given case, the more important does its quality become. Each immedaste parent cuntributes one-half of the blood or pedigree inhoritance of the indipidual; whule each greatgraudain or sire contributes one-oighth only; and the farther the removal the more unimportant does any givon factor or cross bocome for good or evil in a pedigrec. No pedigree can be a good one that does not nsually produce good animals; no pedigree should be prized above other pedigrees unless it usually produces better anmais. If, tried by this test, any peaigree fails, no matter how much it may have been idolized, its valua is fictitious and its effect is hurtful rather than beneficial. The only true aristocracy of blood is one that brings superior merit, without this it is a delusion and a snare. No matter what it may have leen eight or tan geuerations ago, if from a
wrong aystem of breeding, if from laok of nare in seleotion, if from incestuous broeding, or from any other canse, any partioular atrain has ceasod to be uniformly superior in itsolf, it has lost its patent of nobility. Lot all young breoders, and old ones, too, for that matter, try "pedigroes," and "families," and "strains" by this test, without boing dazed by some imaginary halo that attaches to a name handed down from the misty traditions of the past, and it will bo the better for them, no matter what partioular line of breeding tiey may be engaged in.-Breeder's Crazette.

## GIVING MEDICINES TO ANIMALS.

Prof. D. D. Slade presents somo valuable rules for administering medicinos to animals, in the dmerican Agriculturist: "In giving a dronch to a horse, a horn should bo used in preference to the bottle, for fear of breakage. Standing at the right shoulder, raise the head with the left hand under the jaw, and with the right hand pass the lip of the horn into the side of the mouth, and empty its contents, the head being kept up until they are swallowed. If the animal is violent, place a emitch apon the nose, to be held by an assistant; or if he refuses to open the mouth, the tongue may be gently held to one side, the horn introduced, quickly emptied, and the tongue liberated at once. Under all circumstances, the greatest gentleness must be excroised. Nothing san be gained by impatience or by harsh treatment.
"For the ox or cow, liquid medicine is preferable, given from the bottle rather than the horn. The bottle is more managea le, and one is less tempted to uso it to pry open the jaws, and perhaps thus lacerate the tongue also. Elevate the head only enough to prevent the liquid ranning from the mouth. The bottle should not bo pushod back far into the throat. The tongue should be left free. The follaring is a very neat and efficacious method: If standing, place the left side of the animal against a wall, and standing on the right side, seize hold of the upper jan by passing the loft arm over the head, and bending the latter far ronnd to the right, slightly elevating it. With the right hand, pour the contents of the bottle into the mouth at its angle, using the least possible force.
"Medicinal substances can be readily given to the cat, after properly securing the animal. An efficient method is as follows: Grasp the hind legs above the hocks, between the little and ring fingers of each hand, the fore extremitios above the elbow, botreen the other two fingers, and place the thumbs against the posterior-lateral parts of the head at the base of the ears. Being thas firmly held, the medicime, eith ar solid or ${ }^{-}$liquid, may be given from a common spoon.'"

## EDUCATING HORSES.

If a colt is never allowed to get an advantago, it will nover know that it possesses a powar that men cannot control, and if made familiar with atrange objects, it will not be skitwal and nervons. If a horse is made accustomed from his early days to have objects hit him on the heele, back, or hip, he will pay no attention to the giving way of a harness, or a waggon running aganet him at sn unarpected moment. We once sary an aged lady driving a high-spirited horse attached to a carriage down a ste日p hill, with no hold-back straps apon the harness; and sho assired us that there was no danger, for her son accustomed his horses to all hinds of usage and sights that com. monly drive the animal into a frenzy of foar and exoitement. A gun can be fired from the back of a horse, an umbrella held over the head, a buffalo robe thromn apon his neok, a mailrosd engine
pass closo by, his heels bumped with stioks, and the animal take it as a natural condition of thinge, if only taught by caroful management that it will not bo injured thoreby. There is less whipping wanted and more edueation.

## REFORMIVG A BAULKY HORSE.

" It was now to me," says a correspondent of the Live Stuck Juurnal, "and was very offective in the one onse in which I saw it tried, hence, I send you a description of an apparatus designed to in. duco a baulky horso to roform his bad ways. A light but atrong pole has one end fastened to one ond of a whiffletree-a steady horse being worked on the end. The other end of the pole extends to the head of the tronblesome horse, and is fastened to a strap passing around the nose and througls the bit rings. If the horse does not start promptly and keep abreast with his mate, ho is pulled by the front and upper parts of his mouth. Whenever he starts forward he is relieved. In the case in which I saw this tried tho horse hung back for some three hours the first day, perhaps an hour the next day, and gradually gave up aftor a shorter trial, until in about a month he showed no signs of his old habit."

## A GEVEROUS HORSE.

A pair of horses in an English stable, whose bor-stalls adjoined each other, wers frm friends. The one which finished its hay first invariably received from the other enough to keep it busy until both lots were consumed. One day, one of the horses made its way aut of his own loose box, the door of whioh was unfastoned, and found out a bucket of mash which was standing in the entrance of the stable, and, taking the opporiunity, while the conchman was in the loft overhead, it was helping itself freely to its tempting coutents. The othor horse, whioh was fastened to its omn loose box, oaught sight of its friends proceedings, and neighed loudly, evidently demandiug a share for itself; and the servant was astonighed to see the horse, which was oujoying itself, fill its mouth with the mash $x^{-a n d}$ poke its nose through the bars of the loose box for its friend to take it from its month. This was done several times.
General L. F. Ross, of Avon, Ill., introduced Galloway and Norfolk polled bulls in his herd, with the virtual effect, the Drover's Gazette says, of " knocking the horns off the Devons."
As exchange says:-"It has time and again been trathfully asserted that the bull is half of the herd." We will add, that the ram is half of the flock, the stallion half of the stud, and the boar half of the herd. Bear these three facts in mind, and when purchasing males for breeding purposes, purchase only the best, and thus will the value in the live stock of the Dominion be greatly enhenced.
Ter benefit derived fromthe introduction of a fine breeding animal into any given community is not as remote, nor as indefinite as many seem to think. In fact, the good results are immediate and lasting. Elovating the quality of the breed is not the only consequence to be noted in such a case, but it serves as an active factor to stir up healthy competition among one's neighbours, which is the life of the stock trade as truly as of others.

Sars the Breeder's Gazette: Last week mention Was made of the income receivad from a herd of grade Jerseys in Virginia, and now we have an account of the income from ten Jersey grade cows, orned in Johnson Co., Ind., which for cream and butter amounted to $\$ 818.84$, or an average of $\$ 61.88$ per com, besides the calves and mulk. With eloven cows the average receipts per month for the first four months of this year were $\$ 97.95$, or an avarage of $\$ 8.90$ por cow per month. This is at the rate of $\$ 108.85$ per year."

## CURRENT NETVS ITEMS.

D. D. Wilson's tonme, of Seaforth, have drawn $1,200,000$ dozen egge during the past scason.
A farazer of Garafraxa obtained 800 bushels of mangolds from a little over a quarter of an acre, about 1,000 bushels per aore.

Mr. Gso. Donson, whose farm is just outside the corparation, on the south-west, had the enormous yield of 1,500 bushels of mangolds off one-and-a-half acres of land. Who can beat this ?
As a eample of the wheat that is raised in Essex County it is montioned that Jasper Goldon, this fall had 50 bushols of whent, whioh, when weighed, came to nearly 8,600 lbs. A bushel weighs 60 lbs ., so that in 25 bags of 2 bushels each by measurement he had 7 bushels extra.

A litiles son of Mr. D. B. Campbell, of Parkhill, playing among some hives tho other day, was attacked by bees, and would undoubtodly havo been killed had not assistance soon arrived. The little fellow was unconoious from the effeet of the stings before the bees were driven off.

Soure farmers, says the Port Elgin Free Press, are keeping back their potatoes, expecting better prices. They were never further mistaken. The New York and Boston markets are glatted, the orops all over the country are enormous, and there will bo no demand in the States this year for Canbdian potatoes
Tas Canadian apple trade is more active it is reported, and advices from England are said to be favourable to slippers. We hear of 8,000 barrels being shipped this week by one firm of the Baldwin, Spitzenberg and Northern Spy varieties. For such the market here is $\$ 8.50$ to $\$ 4$. English market 20 to 25 shillings.

Tes rot in potatoes bas done much less injury than ras feared in August. It was caused doubtless by the heavy rains of that period, and the subsequent drouth effected the cure. The chief injury was done in undrained losmy and olayey soils, where, in some localities, half the crop was destroyed. Farmers are overy yoar being taught nev lessons on the value of underdraining, but, like the legsons of experience, they are often very dearly bought.
Tae Arthur Enterprise says: A very malignant looking disease, by some called the "Head Mrurrain," has appeared on the 16th con. Peel. Mr. Philip Farley lost two calves ono day last meek, and his neighbour, Edward Gainer, lost another a few days afterwards. The animals appear to become affected very suddenly. They swell in the throat and side of the head: and dircharge a bloody froth from the nostrils. As the disease is not common in this section it is probable that a few isolated oases may be the last of it here. Mr. Farley had in addition nine very fine ewes killed by dogs a few days previous."

Mr. F. W. Stons, Guelph recently made the following sales:-To Mr. John Dillman, Oakwood, Ont., yearling Shorthorn bull, 14th Seraph. To Mr. D. Johnston, Campbellford, Ont., shearling Southdown ram. To Sir John W. Walrond for MCr. A. M. H. Walrond, near Emerson, Manitoba, Hereford bull, Cherub and, Hereford cow, Dainty 2nd (imported); also Dainty 2nd's bull calf; Heroford heifer, Perfection 10th, two years; Hereford hoifer, Hazel Duchess, slso five Berkshire pigs. To Mir. J. T. Sifton, Wallacetown, Ont, one shearling Southdown ram. To Mir. $\dot{\text { F. }}$ Bonn jaastie, Campbellford, Ont., one shearling Cotsrold ram; Shorihorn cow, Polyanthus Ind (imported in dam) ; Shorthorn ball calf, Barrington Divke, two months: Shorthorn heifer, Anchovy 2nd. In addition to the above Mr. Stone sold four Cotsrold rams at the Provincial Exhibition, Kingaton.

## GOOD PAY TO AGENTS.

Ageata wanted in overr rillago to ma and townhlp, to mako

O. BLAOEETT ROBLMSON

5 Jordan Btrest, Tononto.
Publishor.
LETTBRS on business should alsays be aidressed to the POBLISHER; rhile communications interuled for inacrtion in the paper, ur reiating to the Edicral depaDitht, to ensur prompt altent

## ©lue 思urat Caudian.

TORONTO, NOVEMBER 15TM, 1882.
A WORD IN SEASON.
The time is approaching when our readors make up their list of papers for the ensuing year. Of course tho Rural Camadian will form one of the number. We have reason to know that it is already a favourite in many quarters; and the improvements we intend making in all departments of the paper, commencing with the first issue in January, are sure to increase its popularity and extend its sphere of usefulness.

We invito our friends everywhere to help in enlarging our list of subscribers; this can easily be done without muoh labour. Let every reader ask a neighbour who is not already in our list to take the paper for 1888.

The price of the Reral Canadian for the ensuing year will be $\$ 1$; it will be sent to clubs of four for $\$ 8$, and to clubs of ten for $\$ 7$.

During the coming month we expect to have numerous renewals; and, if agents push the canvass with vigour, we hope to add thousands of names to our subscription list. Let the work be done withoat delay; balance of year free to new subscribers.

## VALUE UF STRAIT TO THE FARMER.

For cattle and sheep, strati of any kind, if it is bright and in good order, is excellent food for them when properly prepared, and horsea will also eat it and look quite as well as they do when fed on hay. But in addition to hay or cat straw mixed with bran or meal, horses that are used steadily for work should be fed plenty of shelled oats or corn, as they cannot stand hard ussge pithout such grain. We do not protend to say, either, that strav alone should be fed to cattle or sheep, as there is too much balk and not enough of strength in it to insure the greatest satisfaction; but along with it should be fed a small quantity of wheat bran and middlings mixed, $O_{2}$ corn-meal-making what is familiarly known as " ohop." Without so preparing it, it is doubtful about them eating enough of it, if nothing else is fed in connection, to keep in as good condition as is desirable.

If a farmer has room in his barn, he should store his crop of stram therein as he threshes his grain, and then with a good straw catter, ran by horse power, the work of manufacturing it into number one feed is easily accomplishoa, and this aan be done in stormy weather or when it is too unpleasant to work out of doore. Strsw prepared and fed in comfortable star'es will be found fally as valuable for stook as hay of good quality, and will take cattle, sheep, and colts through an ordinary winter, without necessarily using any other kind of food, and bring them out in the spring in good condition. By making a good crop of straw of value as food for dock, and feeding the hay,
fodder, eto., of the farm as is usun, double tho nmount oi stook oan be kept through the fintor, that is kopt when it is not used, and at a vory littlo increase of cost

Straw is of great valuo to a farmer oven if it is not wanted for stoch food, when used as a manurs and for bedding down animals. The most diffioult thing connected with housing farm animals to feed thom thruugh the winter season, is to heep the stable floors in a uice clean condition, and, as this is positively necessary, there is nothing so good as a littor for the stables as finely cut atrarip. It is a splendid absorbent and makes a bedding for stock to lie down on, quite superior in our estimation to any other material in use, while its valuo as an addition to the manure is muoh supgrior to sawdust, tanbark, and such articles. It should be out quite short for this parpose, and a largo quantity can bo prepared at a time and be piled up in the barn, where it will be convenient for use as it is needed. Enough should be thrown in the stalle every morning to keop them dry, and at the and of evary week thoy should be thoroughly cleaned out throwing their accumulations into the manare cellar, or, if there is no manure cellar, it should be thrown tin a hesp under cover, and occasionally have a quantity of water poured over it to hasten decomposition. If piled up out in the weather it is liable to receive too much water and the strength noak out and mash swry. Unless the straw is cut short, it is not advieable to use it as an nbsorbent or stable litter, as it cannot be conveniently removed from the stalls on account of it olinging together and forming a solid sheet of manure. When the straw is cut ap short, it is easily remeved from the stables and is always easily handled afterwards.

## ROOTS VS. ENSILAGE.

> bY \&. W., Whitevale, ont.

Noticing your paper on ensilage it struok mo that in our interest in the new we are apt to forget our old friend-the root crop. I have read a great deal for and against ensilage, and have followed its history from the beginning, but have faled to discover anything to induce me to make a trial of it.
In taking anything new in hand, especially in farming, we should study every point in connection therewith, climate, soil, our requirements, and last but not least, have we no crop that fills the same place in our farm economy.
W. M. White, correspondent of the Country Gentleman, says: "The southern winite dent tooth-corn, with drill cultivation, will yield from ten to twenty tons to an acre." "Ensilage should not cost more than two dollars a ton." "A ton $\&$ month is full feed for a com." Having, however, no practical knowledge of ensilage, I can do nothing but theorize concerning it. Corn will not-judging by the growth of our common yellow corn-yield as heavily with as as in the United States, without cultivation at a greator expense than the crop rould afford. As for clover, millet, Hungarian, etc., the extra valne will not pay for the extra expense. A chemical analysis of ensilaged corn and cured corn malses no matorial difference in natritive values in cithor, the additional weight in the ensilage being mainly water; but practical experience shoris ensilage to hase the greater feeding value. The difference secms to be this: The particles of nutrition in ensilage must be mpinly held in solut'on by the water, and thus when tolien into the stomach is in the hest possible state for diges tion. This seems to be the reason for the greater
feoding value of all green foode. Thus grass fattons fastor than the samo grass mado into hay; but the proportionate differonce betwoon grass and hay is far less than botwoen onsilago and oured oorn, the difference sooming to be in the faot that oorn contanns more wator, and there fore requires moro woody matter to carry the water. Tho samo faot applies to roots, their valuo resting on the same principle as that of onsilago, only to a greater extont. And also when fod in couneotion with dry feods, the water containod in roots assists digestion to a greator extont than the eamo amount of water taken by drinking. This then is the reason for their greater foeding value; that they approach nearar to the character of grass.

Now for a fow faots about roots. Our root orop this year was all Swods turnips. Siateon acres averaged 750 bushels por acre at aixty pounds to a bushel, making a yield of thirteen and one half tons an acre. The cost is as foliows. Ploughing three times, at $\$ 8$ per acre, $\$ 8$; harrowing, rolling, etc., $\$ 8$; hauling manure, $\$ 3$; manure, fourteen losds, at 25 cents, $\$ 8.50$; seed, 27 cents; pulling, $\$ 2$; hauling, $\$ 8$; total cost per acre, \$28.77. Thirteen and one half tons cost $\$ 1.76$ a ton, and when onco harvested no weighing or cther exponsive labour is required. A ton of turnips is therefore cheaper than a ton of ensilage corn. A ton a month is sixty-six pounds a day, which is a good average ration. It is true, roots cannot be fed with good results alone. It is also equally true of ensilage, hay, bran, or meal of some kind, muat be fed in connection theremith. I do not disparage ensilage in the least, for I believe where soots cannot be grown it will fill their place, but as an intire food it can no more be depended upon than roots, as any one can perceive who has studied all the practical experience of those who have tried it; all admitting that meal, bran, or hay, must be fod in connection therewith.
Iset us then think twice before we convert, at a great expense, our cellars into a silos, before we purohase expensive machinery to perform the labour of cutting and moving; and let ns not forget an old friend, before we have taxed his atmost capabilities-an old friend which has often helped us through a season of short hay orop, and also of short money crop.

At Mr. T. Tim's sale in Esst Nissouri, the other day, this year's calves sold at $\$ 16$.

Some fine Arab horses wore sold at auction, a few weeke ago, in London, England. About two hundred persons were present at the sale, among them Lord Bradford, Lord Rosslyn, Lord Hardinga, and Mr. Peroy Wyndham. Eleven horses were offered, and the total proceeds were \$7,750. Pharaoh, a pure Arab stallion, brought $\$ 2,265$ from Connt Potoki, who takes him to Poland. Brood mares averaged $\$ 600$ each, and a two-jear. old filly went for $\$ 750$.

Thie Rev. Mr. Gillespir, secratary of the Galloway Cattle Society of Scotland, said at the last annual meeting of Damfries that, while the Polled Angus was a magnificent breed for particular circumsiances, Gallowsys, ho bolieved, were the best adapted of all breeds for the purposes of Canadian American breaders who wished to rid their horned cattie of these needless sppendages. He ventured to affirm that were a pure, well-ored Galloway bull was put to cows of any horned breçd, the produce in minty-nire cases out of every 100 would be Pollịd.

## A FALUABLE REVIETV．

In order to make romm for tho summary of tho report from Bureau of Industrioe for No． vomber，wo lenve over soveral oditorials which should have appeared in this issuo．Mr．Blue＇s report is aeasonableand suggestive．Tho portion reforring to the average yiold of cortain ceroals in Ontario and nine Statos of the American Union mast bo very gratifying，and ahould have tho offect of making Canadians more than over satigied with their own country．Alto． gether tho summary given below will woll ro－ pay careful porusal．
Wo have now reachod the close of tho growing season． It fo a fitting time to roviow the results of farm oporations for the year；to noto the progress mado in threaling and marketing grain，and in gathoring the fall crops of fruit and rooto；to give an account of the condition of livo stock and the supplies of animal products，the breadth and ap－ parance of the new crop of fall whost，and the propara－ tion of land for next spring＇s eceding．
Tho November Report of tho Bureau of Industries deals with these and other subjocts，the main object kopt in view being to parrato facts rathor than to draw inforencos or oxpress opinions．Additional statistios aro aleo givon， and the tables publishod in eariter Reports（having boen carefully revised with the aid of more complote data）aro reproduced．They show in onoiso form the exteat and results of agricultural industry in Ontario this year，－the area of occupied and cleared lands，the acresge and pro－ duce of cropa，the numbers of live stock，and the values of farm property．
The early part of the season gave but a faint promise of tho rich harvest that has been gathered．April was dry and cold，with raw winds from the north and cast，and oharp frosts almost every night．The temporature con－ tinued low until late in May，essterly winds provalling， but with a marked incresse in the rainfall．Forest troes were not fully out in leaf at the end of that month，and spring grains and grasses showed only a short and sickly growth．The fall whent and clover had suffered greatly by the alternate freerings and thawings，and the fruit crop was ruined in the blossom by the conjoined effects of frost，wind and chilling rains．
But a maribed ahange came with the month of June． There were warm days and genial showers，and under these influences grass and grain crops mado vigorous growth，steadily improving until thoy wero ready for the mower and resper．Indeed it is doubtful if better crops all rounc hase ever before beon produced in the country， the only failures worthy of mention being orchard fruits and clover．Some damage and considerable delay were caused in wostern counties of the Province by tho heavy rains of the wheat harvest season；but compensation was made in the benefits to corn，reots and pastures，which had suffarad by the drought of July．
The bountiful nature of the harvest has bsen referred to．But this good fortune was not given to Ontario alone； targe crops havo been the rule nearly all over the conti． neat，－a fact which must not bo lost elght of when com． parisons are made．
The reports of correspondents show that all lato ripen－ ing crops have been favoured by tho fall weather．There was generally just enough rain in August and the carly part of September to promote healthy growth，and over a part of Septermber to province there was no frost to hurt vege． large part of the Province there
tation until the 19th of October．

Corn．which fared badly throughout Jane and July， was greatly improved in the lattor part of the season．It is an excellent crop in Essex and Rent，and fairly goort in portions of Lambton，Middlesax，Oxford，Brant，Elgin， Norfolk and some of the Lake Ontario counties．In the countics of the St．Lawronce and Ottawa group it is a light crop and poor sample，having been caught in an im． mature state by fall rains and frosts，and in other parts of tho Province littlo is grown．
Field beans are growa mainly in the countics of Kent and Norfolk in the west，and in the counties along the Ottawa river in the cast．In the latter district thero has been an oxcollent yield，thourg in some localities injury was done by frost．There has been also a good crop in Norfolk，but in Kent it ripened unovenly owing，doubt－ less，to the excess of August rains．
There was a largo ares uqder buckwhost in tho osstern counties of the Rrovinco，towards the lower end of Lake Ontario，and between the St．Cawrence and Ottarwa rivers． It ripened woll，and is roported to bo tho bost crop in many years，but some fields ware partially destroyod by the galo of September 14th，and others by oarls frosts and wet：weather at the resping season．The largest and best crops in the west were grown in the county of Norfolk．
In all parts of the Provinco clover was serionsly injured by winter axposure and spring frosts，and tho compara－ tivaly fow ficlds that wero kept for seed have produced
inferiar or worthleas crops．Tho best roporta come from

Thaox and Kent，but oren in those counties tho seed is found to be mmall and shrunken．Elsewhere it has been almost wholly destroyod by blight and the milige．
The root crops havo been varioully affected．In somo districta，as in the Niagara peninsula，in tho Goorgian Bay counties，along tho shuro of Lako Ontariu and in the 8t．Lavrenco and Ottawn counties，the effects of sumaior droughts wore felt，and tho heavy rains of a later period wore followed over large areas by the appearance of the potato rot．Then the potato beetle and the turnip fly were luay ovorywhero，and fut a tium tho cutivuk was not very cheering．But tho mot soon ceased to causo not very cheoring．But tho mot soon ceased to causo
anxiety，and under favournble fall weather late potatoes， and eapecially turnips and mangolds，antistied tho most eanguine hopee of tho husbandinan．A larger or bethar crop of ficld roots has nover been grown in the cattle－foed－ iny countles of western Ontario．
Meagre crops of orchard fruits are the rule in all the best frult－growing counties，and good ones aro reported only from the poorest－a result partly，no doubt，of cli－ matio canses．Vegetation is aeveral days carlier in tho western portion of the Pruvince than in the eastorn，and this year a severe frost occurred snon after the blossoming of fruit trees in the former district and before they had blossomed in the latter．But whilo orhards were healthy in the east，and troes mado good growth，thoy were stricken with a blight in the west that blastod both leaf and fruit，from which they did not recover until late in the season．The cause of the blight is not well under－ atood，although many theories are advanced，but tho opinion is generally expressed that it was temporary as well as local in its character．The codling moth was also a worso pest among the apple trecs than usual，and by the galo of September 14th nearly the whole of the affected friit was blown donn；in many districts a fourth of the crop was stripped of by that storm．Peaches wete a small crop，owing partly to the effects of an ice－storm last winter and partly to frost at the flowering season．Thare was an average supply of pears in tho country，and in the western counties grapes wero plentiful and ripened well．
With the exception of three or four countica where local droughts prevailed pastures have been fresh and rich all the aeason，and live stock are reported to be hestithy and in good fleah．SNes of atore animals have been active for some time，and it is specially noticed that the stock of mature stoors for stall foeding is much lower now than two yenrs ago．The practice in the best grazing districts is to give cattle meal on the grass，and large numbers fitted in this way are sold to dealers in the summer and early fall． An instance of the extent of this trade is furnishod by tho county of Middlesex，where it is stated that more than 8,000 havo been sold for export this year at an－er－ age of $\$ 50$ per hesd．Many farmers，howover－encour－ aged by the high prico of meat，the abundant cmp of the roots and the low price of coarse grains－aro buying up second and third class cattle to feed all winter for tho spring markets．Hogs are scarce，but a large peroentage of the wholo has been shut up for fattening．A fair sur－ plus of sheep and lambs is held in the inland counties， where there is a growing preference for Downs；in the Lake Erie and St．Lawrence countios drovers buying for the American markets always keep the suppiy low．Fino pastures，steady demand and grod prices combined to pastures，stesdy demand and grod pices con ane industry this season，and a very lerge quantity has been made and exported．The butter supply is consenquently below the average of former ycars，but it will increase as the factories close．
The bulk of this sear＇s grain crops is nodoubt in farm． ar＇s hands，and a large proportion of it is yet unthreshed． The late harvest，the sowing of fall wheat and the taking up of root crops havo operated to some extent to delay marketing，but the principal reason is tho lowness of prices；farmers are only selling enuugh to meet pressing demanda．A good deal of the fall wheat thr shed after harrest to make room for the spring grain fo and its way to market，but little has been sold since．The good quality of the barley grown in the Bay of Quinter region－ where it $w$ ws reaped and housed in fine condition has in－ duced buyers to offer good prices there．In the western counties on the other hand，whero it was discoloured by rains，prices rule low，and there is reason to beliove that a large part of it will be fed at home．
The Tables of Statistics show what the farmers of Ontario have donc，and are doing．The total number of farms in the Province is 201，766，embracing an area of $19,602,387$ acres，of which $10,211,960$ acres are cleared． The value of sarm land is sot down at $\$ 651,882,030$ ，and tho total of land，buildings，implements and live stock at \＄882，023， 400 ．
The area under grain crops this yoar was $5,002,067$ scre，or 48 per cent．of all the cleared land．The acreage and production of each crop are given 23 follorsb．Fall wheat， $1,188,520$ acres， $31,255,402$ bushels；apping wheat， 536,817 acres， $0,665,999$ bushels；barlos， 848,517 screes， $24,284,407$ bashels；oata， $1, \$ 75,415$ acres， $50,097,997$ bush． els ；rye，189，031 acres， $3,549,898$ bushcls ；peas， 557,137 scros， $10,943,357$ bushcls，corn， 206,924 acres， $13,420,994$ sacres， 10,93, ， bushcle．The total of spring and fall whoat is $1,775,337$
acres，yiolding 40，921，401 buahel，or an averago of 23.03 buhhela per acro．
Tho prmiuce of oach kint of grain is based un the returns of threahers and tho reports of correspondents－ the method adopted by tho Depa．tment of Agriculture at Washington and by several state Bureaus．The tollow． ing tatio sives the averrage uf cushela per acro this goar for tho Province of Untarto and for nine of tho principal wheat－growing States，tho figurea for the laster boing taken from tho Uctober Report of tho United Statos Do． partment of Agriculture．

|  | \| | 欵总 | 容 | ¢ | 迲 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Oatario | 210.3 | 10.5 | 48． 6 | 30.4 | 18．8 |
| Ohio ．．．．．．．．．．．． | 16.7 | ．．．．． | 19.9 | 28.0 | 15.8 |
| Michignn ．．．．．．．．．．．． | ${ }_{17}^{17.8}$ |  | 25.2 | ${ }_{3}^{33.3}$ | 17.0 |
| Indiana | 15.7 |  | 24.0 | 21．0 | 16.1 |
| Illinois ．．．．．．．．．${ }^{\text {a }}$ | 16.0 | ．．． | 23.3 | ${ }^{37.4}$ | ${ }_{185}^{16.6}$ |
| Misaouri ．．．．．．．．．． | 19.6 |  | ${ }_{23}^{23.0}$ | ${ }_{38.1}$ | ${ }_{22.3}$ |
| Lowna．．． |  | 11．0 | 21.7 | 31.8 | 14.3 |
| Minnesita |  | 13.3 | 23.3 | 40.0 | 18.0 |
| Dakota |  | 16.7 | 29.2 | 45.0 | 20.0 |

It is only necessary to add that in the Alserican States the grain crops are regarded as excoptionally good this year．The comparison of averages therefnre makes a ro－ markably good showing for Ontario．
The total produce of beans is computed to be 409,910 bushels：of potatoes， $18,432,145$ buahels ；of mangold wurtzels， $7,711,420$ bushels；of carrots， $4,009,975$ bushels ； and of turnips， $35,359,361$ bushels．The area under mea－ dow and clover was $1,823,890$ acres，and the produ：o 2 ， 090,626 tons，being an average of only 1.14 tons per acre． The damage done to clover by winter exposure and apring frosts accounts for this poor result．Orchard and garden embrace an area of $2: 3,846$ acres，and vineyard 2,098 acres．The roturns for the lattor are doubleless imperfect
The tables of live stock show that the number of farm horses in the Province on the 31st of May was 503，004 of cattle， $1,556,312$ ；of sheep， $1,915,303$ ；of hoss， 850,226 ； and of poultry，5，352，120．The number of milch cows was 665，322，and of thoroughbred cattle，23，629；the returns of the latter，huwever，wore incomplete．Of sheep one year and over $033,1+3$ were returned as coarse－woolled， and 178,299 as fine－woolled；the average weight per fleece of coarse wool was 5.19 lbs ，and of fino wool 513 lbs ． The number of hegs one year and over was 252,415 ，and under one year 597，811．The number of turieys was 310 ， under one year 537,811 ．The number of turkeya was
05s；of goese， 53,357 ，and of other fowls， $4,508,705$ ．
A large breadth of fall wheat has been sown，but it was got in late and much of the ground was in poor condition． The rains of August prolonged the harvesting scason，and farmers were not able to give tho usual care to fallows． Besides，as an increased screage almost invarisbly follows a good crop，quantities of indifferently tilled and manured stubble land have bsen pressed into service．In many parts of the country－especially in the westera counties－ the ground was hard to work，owing to tho drought of Sep． tember，and some fields wero sown as late as the 20th of October．Tho young plant has in these districts made slow growth，for want of stimulating rains，and has slow growth，for want of stimulating rains，and has
neither rooted nor tillered well ；yot it looks healthy sud has a fairly promising appearance．In tho eastorn coun－ ties，where the September rainfall was greater，the land was in good tilth and the crop is in fine condition．A fow reports make mention of injury done by tho Hessian fly， the wire－worm and the white grub，but it has been in no instance serious．
It appears from the reports of correspondents that much attention is being paid to underdraininc and to manuring the soil The value of drainage bas becn strungly enforced by the experience of this year，and in many sections the work is only limited by the scarcity of labour and of tiles．Large quantities of salt and plester are used on grain，root and grass crops，but there is a growing upiniun that the best way to keep up the atrength of the land is to increase the manure heap，－which means to quote tho remarte of a Wellington correspondent，that ＂there is nothing like plenty beef and mutton to the acra＂ Salt is loss used as a fertilizer this ycar for the reason that manufacturers have do－bled the price，and phosphztes are generally used in limited quantities only by way of experiment．
Slow progress has boen made with fall ploughing，the ground boing gencrally too hard and dry；but the pro－ longed sesson has been a boon to all who were behind with this important work．

More than half the nemspapers in the world ane proted in the English Janguage．
In Bristol and Clifton，England，nearly 9，000 persons have signed requests to the local postmaster that their owa letters mas be retained at the post office during the Sabbath．This has so far diminished the work of the letter－cariers that every other Sunday they are pernittel whe＂off duty．＂

## SHEEP AND SWINE.

## THE CUTSWOLDS.

Mr. Stone, of Guelph, claims to have boen the first in his section of country to introduce the Cotswold sheop. He had, he says, at first a diffi. calty in inducing anyone to look at them, but by degrees that prejudice ranished, and now no sheep has among its breeders more onthusiastic admirers than the Cotswold. Mir. Stone is a man however, who looks at evergthing in a most practical manner, and is no more prejudiced in farour of his Cotswolds than of his beautiful white-faced cattle. As regarde wool, he ssys :-

- We find it difficalt to keep up the same quality of rool here as they do in England; our climate is too dry and hot. I fancy that the Sonthdown rould keep up its quality of rool better than the Cotsrola in this country. If the farmers would use a Cotswold erre with a Shrop-
for a medium rool vory farourably coincides with the requirements of the market for mutton.
Mr. Douglass, of Peroy Township, Nortbumberland, keeps both pure-bred Cotswolds and Leicesters. Ho says :-
"I generally get a olip of ten pounds rashod mool from Leicesters or Cotswolds, though I have a Cotswold owe which sometimes gives sirteon pounds The Cotswolds give a littlo more wool than the Leicosters, and we get nbout the same price fur the wools. The Leicesters of my llock are tho Border or largo Leicester breed."
Mr. Smellie, of Vaughan (York), says of the Cotswold :-
"From the Cotsmold I get seven or oight pounds of wool. I have almays been able to sell my wool, but not at a rery high figure. This year after clipping time was over, I think is was trenty-seven cents I got for mine, and list yoar the price was not so high. Of course if the sheep are better fed the wool is more abundant." - Report of the (ntarw Agricultural Commission.


## SWI.YE RAISING.

Pare air helps to make pure blood, which, in the course of nature, builds up healthful bodies. Out-of-door pigs would not show so well at the fairs, and would probably be passed over by judges and people who have been taught to admiro only the fat and helpless thinge which get the prizes. Such pigs are well adapted to fill lard koge, whereas the standard of perfoction should bo \& pig which will make the most ham with the least wast of fat, the lnngest and deopest sides, with the most leau meat ; it should have bone enongh to allow it to stand up and holp itself to food, and carry with it the evidence of health and natural development in all its parts. Pigs which run in a range or pasture have good appetites-the fresh air and exercise give them this-hencethey will eat a great v. ety of foodend much coarser than when confined in pens. Nothing need go to waste on


COTSWOLDS
shire or Southdown back I think they nould hsve betice rool.
"Bat now there is not so mach demand for nool of tho length that there formerly ras. With the machinery $n 0 \pi$ in nse, reol fear or five inches long can be naried as ricll, prorided it has the samo toxtare, as that cight or triclve inches long. I am quate satisfied that, if I had a large quantity of nool from a censs of a Sonthdorn on the Cotsmold, I could command thros to firo cants a poand more for it than for tho rery coserso nool of tive oliber breais

- I don't think that crose reduces the quentity vers mach I hape secn some feeces in ribich tho mool, thoagh ant so long, pas thicker. The Ncight Far pretts nearly tho same. The quantity of nocl depends rery mach on tho waight of the abeap.
"Tho tendency of the merket is at piescat towasds sbarice nool ; there is a bester demand for Soathdown wool now than there bas beca for some tince"

This points to two conclusions. First, that, no matier what tite demand for, or increasing popalerity of tho $D_{3 \text { nass, the }}$ Coismolds mas sidl, eren froma a rool dealce's point oif rierr, be bred to ad. reotuge ; end, soccrids, thet tho presant demend

## IMPORTANCE OF LSLNG GOOD BOARS.

December is the month when the coupling will mostly be done for next spring 3 crop of nigs, and next finter's crop of fat hogs. Their value will depend in a great degrec on the quality of the boar by which they are sired; and if he is mell bred, nell shaped and prepotent, he fill do mach to orercome defects in the sorrs, and beget pigs of geod form, stan-ins andjuniform excellence-and the latter is really all the "uniformits" north surthing. If tho boar is of mixed breeding. doubtral qualits, and has a good deal of daylight under him, some of his pigs fill inherit ons or mere of his shertcomings, and some others, or all; of them, no tro of ribich fill bo like, excent in worthessness, tho resalts will bo in no $\mathrm{maso} /$ satisiactary, from the timo they aro farromed to the dsy Fhen thoy are noighed ap to thoir-in $t 00$ many instancos-unfortunato purchaser or consamer. In hog raising, the only may to go right, is to start right, and no man cen do that with a pocr, or so-called "cheap" boar.-Lins Stack Jouracl.
the farm for lack of a :uarket. They will consume all the refuse fruit, roots, pumpains and all kinds of regetables, which will make thom groms. By citending the root patch, and planting the fodder corn thinner, so nubbins will form on it, and by patting in a sweet varioty, the namber of pigs may bo increased in proportion. A few bashels of corn at the end of the season will finish of the pig. The pig pasture will be ready the next year for any crop, and ten times the adrantage accrue to the farm than if the pigs are confined in closo pens, for, as pigs are usually managed on the farm, but littlo manare is orer mede from them.-Col F. D. Curis, in American Agricalturist for October.

An old and distangaished breerier of sheap of all improved broeds asys it has been his unraried oxparience that a ycarling lemb is loss usefol and profitablo than a lamb or tro-year-old shoep. Haring bred sheep for yesers, our informent is in a position to know. Ho prefers a good, strong ram lamb, to a ram of any other age, and bolieves that tho product of the former mill provo bettor than the latier.

## THE DATETY.

## treathenti of milch cows in eanly

 winter.At no season of the year do milch cows need better and more generous diot than in early winter. Tho change from grass to dry fodder is of itself sufficient cause to produce more or less derangement of health. But whon the animal's tone and rigour have beeu lowered by a long poriod of milking, and sho is then subjected at the same time to the rigours of winter and a change of food from nutritions herbago to dry, coarse, and often innutritious fodder, a severe tax is laid on her bystem. Yet on many farms it is the practice to feed to cattle in early winter only coarse and inferior fodder and the poorest bay, because these articles have been stored last in the barn or on the tops of the mores, and must, therefore, be disposed of before the bettor portions of the supply can bo reached. This, howover, is a great mistake, as the best food should be given when the cows first go into winter quarters. Afterward, when they have been dried of their milh and have grown accustomed to the ohange of diet, the poorer food may be used; or, better still, as animals, like men, are fond of varicty in their diet, tho coarser and less nutritious fodder may be adrantageously used in conjunction with that of a better quality.
Through neglect of this precantion, however, $2 t$ frequently happens that cows in milk loose fesh during November and December, and sink into a bed condition to endure the still more severe weather yet to be expected. To avoid this mis. fortune, in cases where poor or damaged fodder has necessarily to be given out first, the feed should be supplemented with ratuons of ground grain, oat and cornmeal muxed, bran, or shupstuff, to add a proper amount of nutriment to a given balk of fodder. Corapelling cows to consume an excessive bulk of inferior food in order to enable then to support life and yield mill overcronds the stomach, tends to derange health, and is by no means a yare causo of serious ailments. Among these, not the least disastrons is a serious liability to abortion, caused by an undue pressure of the food upon the parts. Moreover, out the score of self-interest, as well as of humanity, corrs should not be allowed to lose tlesh in early winter; for it wonid require much more food to restore them to good condition in cold weather than in summer. Besides this, as lean animals aro more sasceptible of cold than those in flesh, and a proportionately larger amount of the food they consume is, therciore, expended in generating a sufficiency of animal beat, it mould require considerably more food to carry a poor beast through rinter than a fat onc, even though nothing may be added to the animal's condition.

Tho necessity of shelter for all kinds of stock irom the storms, froste, and inclemoncy of this bleak sesson has been frequently dwelt upon in these pages, and its cconomy, rs well as its hamanity, folly demonstrated.

Another canse of injory to coms is that they aro often milked tou long in tho season. Every cor that drops a calf annually should go dry, for the purpose of rest and recuperation, not less than say sir weeks before calving; and in many inslances this time shoald be extended to ten or trolvo moeks If the animal is in foll fiesh and about to como in daring tie prastaring season, sho may, as a colo, bo milked ten and a half monibs in the year; whereas, when tho samo cow is expected to calve during the foddering season sho ought to go dry at least for tro months, and an animal in thin flesh should hare three months for recuparation and rest. This interral allows
as to produce $\Omega$ healthy offepring and bo in a condition to yield a iall supply of milk the following season. Cows that do not readily dry of their milk will, of courso, require to bo milkod somewhat later; but theso are oxceptional cases. If a cow in poor condition is milked during most of the winter months, more will be lost in the production of buttor and cheeso the following summer than was gained by milking her through the winter.

In drying cows care should be taken that all the milk should be drawn at each milking. The habit which some have of only partially emptying the udder, from time to time, when drying cows, is highly objectionable, as the milk left in the bag becomes thick and putrid, causing irritation and infinmmation, and not infrequently resulting in the loss of a teat or a portion of the bag the next season. When cows are being dried off, they shculd be oramined at interrals of a few days, and every drop of the accumalated milk should be drawn from the adder. Indeed, with cows that are supposed to be dry, it is advisable to try their teats at least once a week, ic see if there be any accumulations of milk.-Rural Neu Yorker.

## FUOD FOR DAIRY COWS.

Rich old grass is the most natutal and best of all cattle foods for prodacing milk of good quality. It is a grave mistake, practised by many intelligent farmers, to keop cows on poor, bare pas. ture, without any assistance in the way of house feeding. Many seem to imagine that land which has been tilled for many years without recut eration, until it has become nseless for grain growing, is quite good enough for pasture purposes, and therefore stint their cors of a proper quantity of nourishment. Nothing could be more short. sighted and unprofitable. It requires, in the first place, a large proportion of food to keep the anirual in a strong, healthy condition, and it is the surplus assimilated after making good the aatural Fastes that goes to increase the animal or for the production of milk. An animal of sound constitution, healthy digestion, and relldeveloped lacteal organs will prove a good milker. Those who whish proper retarns from their cors should, therefore, see that they are properly supplied with healthy food and plenty of good, pure water. The quality of mill varies with the different breeds of cattle, their age, the food eaten, and at different periods of the year. The milk of old corrs is mach thinner than that of young ones of the came breed.

## SALTING BUTYER.

Batter is asually salted in accordance with the demands of the market to which it is to be sent. American butter is generally salted at the rate of about one ounce to the ponad. Perhaps the greater part of the sticet-cream butter has half or less than half that quantity. In tho south of Europe, indoed all Inatin countries, oil is in more general use than betier, and unsalted butter is preferred. The Parisinn custom of serving butter entirely ansalted is sometimes nped in Eng. land and somo of our American cities, bat, as a rale the markets demand that the butter shall carry more than half an onnce of salt.
Unsalted butter will keep forover-provided it is butter and only butter. Bat the buttez of commerce is nerer pure It retains more or less of the other properties of the milk, and it is theso which, while thes add rery much to its ralac, are sabject to almost immediats deterioration, and in torn tend to injure the batter.itself. Evon salt will not long preservo thom. Unsaltod batter doos not "loep." The use of aalt in hntter is wo.e for flavouring than for preservative pur
poses. The proteotion and preserpation of butter are due far moro to the package than to the salt whioh is put in it.-Dairyman.

## FETEDING COWS

The Live Stock Journal, in regard to feeding cows well, says:-"There is less excuse for feeding a good miloh cow stingily than any other farm animal. She does not ask any credit, she makes prompt daily peyment, and her produce is a cash article. If he has not the food at hand, prudence and good judgmont, as woll as humenity, require him to farnish her full rations at all times, without regard to a farourable or unfavourable season. We always counsel dairymen to make an earnest effort to produce all the food for their herds upon their own farms, but the first principle of profitable dairying requires that they give abundant food to keop up an even flow of mills, whether they produce or purchase the food."

It is well for the practical dairyman, when selecting animals for dairy uso, to consider well the merits of the Ayrshires. Holsteins are noted for the great yield of milk, and Jersoys are equally noted for quality, while the milk of the Ayrshire cow may be said to bo between these tro extremes -that is, a fair yield and a good quality.
Tue highest bred cows, it mast be remembered, are not uften the best milkers, and often the agliest looking cow in the hurd yelds the most mill, Good milkers invariably show very angular ontlines, for it cannut be expected the cow should be jielding a large quantity of milk and putting plenty of flesh upon her bones at the same time.

Fine batter can only bo obtained by charning at a farourable temperature. If the remperatare of the oream is too low, the batter will be long in coming and will be hard in texture. If the temperature is too high, the butter will come very speedily, but the product will be greasy, destitute of grain, and deficient in quantity.-Farm, Herd and Home.

A Mriter in the Nem York Times emphasizes the fact that the profit of the dauryman comes wholly from his good cows, and that many a dairy might be reduced one-half in number of its cows and the dairyman.mase more profit than he may have done from the whole original number; becsuse one poor cow will not only "eat off its orn head," but will eat off that of another and a better one, too, before it has equalized the profit and loss of the leep of the two.
As exchange says: "Wero we proposing to build a new dairy-room on an extended scale, wo would, with our present views, have a large workroom where the milk could be skimmed, the cream churned, and tho batter forked and packed. In this room wo would have a chance for a fire, and plenty of water, both hot and cold; also plenty of light from lange windows, protected in snmmer by blinds and screens. Trees and climbing rines should teep off the direct rays of the summer sad, so that cream conld be churned and butter worked in summer fithout being carried to the cellar."
Hon. X. A. Wurhed, of Little Falls, N.Y., is afraid that United States dairymen rill bo injured by Canadian competition in the British mariets, if Canadian batter and choese-makers continue to progress as they hare done in the past for jasrs In a letter to the American Agriculturist, he ssy5: "Csnada has become a formidable competitor with us in export of dairy producc. Canada norr makes goods of the finest quality, and choesedairging is rapidly dercloping is the Dominion. At the present rate of incrasso she will be able, as no distant dak, to supply England rith all the c'incsi needed, proriued the dairy indasty of Brisulu is keyt ng."

## HOME CIRCLE.

## A QUEEN'S TENDERNESS.

There is so much cruel forgerfulness of the rights of in. feriors and servants, on the part of the "privileged classes" generally, that we are always pleased and refreshed to read the stories which are told of Victoria's good heart and kind considerateness. Grace Greenwood relates the following :
When I was in Enpland I heard several pleasant anec. dotes of the queen and her family from a lady who had receired them from her fitend, the governess ot the royal children. The governess, a very interesting young lady, pas the orphan daughter of a Scottish elergyman. During the first gear of her residence at Windsor, her mother died. When she first reccived the news of her mother's serious ill. Dess, she applied to the queen to be allowed to resign her sacred duty than to her sovereign.
sucred daty than to her sovereign-
The queen, who had been much pleased with her, would not hear of her making thes ssenfice, but said, in a tone of not hear of her making this
"Go at once to your mother, child ; stay with her as long os she needs you, and then come back to us. Prince Albert and I will hear the children's lessons; so, in any event, let your mind be at rest in regard to your pupils.
ful commanion with ber dying mever. The street mournful commanion with her dying mother. Then when she had seca uar dear form hid to sleep ur der the daisies in the old royal grandeur would have oppressed her sorrowing heart beyond endurance had it not been for the gracious womanly yond endarance had it not been for the gracious womaniy
sympathy of the queen-Who came erery day to ber school soom-and the considerate kindness of her young pupils. A year went by, the great anniverssry of ber great los dsunged upon her, 2nd she weas orerwhelmed as never before by the utter lonitines of her grief. She felt that no one in by the utter loniness of her grief. She felt that nu one in ness passed out of mortal life that day a year ago, or could give one tear, one thought, to that grave under the scotush divies
Every moraing before breakiast, which the elder children took with their father and mother in their pleasant crimson parlour looking out on the terrace at Windsor, her pupils came to the school room for a brief eeligous exercise. This maming the voice of the governess trembled in reading the Scriptures of the day. Some words of dirine tenderaess were too much for her poor, lonely, grieving heart-her strength gave way, and laying her hands on the desk before her, she barstinto tears, murmuting, " 0 , mother, mother 1 " One after another, the children stole out of the rocm, and went to their mother to tell her huw sadly the governess wis feeling; and that kind-hearted monarch, exclaiming: "Oh, poor girl, it is the manversary of her mother's
dealh," hurried to the school room, where she found Miss " straggling to regzin her composure.
"My poor child," she said, "I 2m sorry the children disturbed you this moming. I meant to have given orders that you shorld bave chis day entizely to yourself. Take 11 is a sad, sacred holiday-I will hear the lessons of the chaldren." And then she added, "To shor sou that I have not forgotice this monraful anairersary, 1 briag you this gifi," lock ping on her zrm 2 beautin mourniag bracker, lock of ber mother's hair, malked with the date of ber tears tgis gift, and the more than royal hand that bestowed it?

## HINDOO MANNERS AND CUSTOMS.

The London "Times," in reviewing a recently prblished book by Shib Chender Bose. "Hiadoo Mznacrs and Customs." says:
a deth, 2 marrugce or oze of lat lashly ostentatious when a deth, a marrizge, or oae of the 2annal religious festivals offer them an ocrasion for paradiag their gecerosity. Thes ilfaminate gardens thas reflect the pleasares of their paradise ; they throw their mansions open to all comers; they feed tropps of beggars and pricsts for dass, and sometimes for reeks. And althongh a Bengali, as a rale, is frogal to stingipess, looking closely to the expenditure of each repee, the obsecrances or his fasta must be a heary tax on him. As the Bratimiss live at the expense of the lajmen, it is to the interest to see that tbese obsertances are mainiziDed. The greal Doorga Yoojzh restiral in itself muss Le 2 rraitrul source of embirrassments and insolvencies. Evcijbody, is bound, if possible, to inve in laxnery farking that degenerates into orgies, and dulge in werr. makug that degenerates into orgics, and
dreas in ner and suroptuons clothing from head to foot. dress in nerr and sumpiuons ciothing from head to foot. pand to moveth, deponit their badd.earned savings fos 2 $t$ telremonth to be spent on this grand festival.' The begkars kave therr wanis frecly rehered, and it is the season to mbich mendiczat Brahmins look formard as the occasion for replenishing thar copply purses. According to the author, if has been roughly cultmatedthat $\$ 50,000000$ are speat annually in Bengal alone, directly or iodirectly; and the Doorgz Poojah only represents on an cxagreiated scale 2 waste that is going forward at laterrals through all the cest of the yent. Either on religioes groands ci un the oceavion of family ceremonies, cotertaned, quisite of the officiaury priesi must be haid before the shrine of the satelary idol. So the Brahmias victimize tie superstitioas commonity, and yet the metabers of the zecrod caste are so great that most of theers barely keep body and sonitogether. This is a common sajing that a Brahmin is 2 ber. par, cren it he posseses a lac of tupees, and ' if an offcisis. ing priest on make ten repers 2 mamith be cossiders him-
seff very well off.' Nazerally, they cinoot afford to be sceupaloss, and it socms strange thet, with therr unblashiag mendicity and their open duseçard of moralus, they retaia their bold even on their ignorant devotes. The avithor relaies focts to show that the most sacered laws of the caste are sacrifeed to peceniary te:apiations. The heads of the order hare cospestrd in enninne the most farrant oficneat

## WE'VE ALWAYS BEEN PRCVIDED FOR.

" Good wite, what are ynu singing for? You know we're lost the hay.
And what we'll do with horse and kyels more than I can say ; hile like as not, with storm and rain, we'll lose both corn be looked up with a
She looked up with a pleasant face, and answered low and sweet :
IVe've slways beet, there is a Hand, tye feel, but cannot see
He turned around with sudden gloom. She said: "Love, be at rest ; woiked soon and late, you did your very You cut the grass, worked soon and late, you did your very best,
That was your work ; you've naught at all to do with wind rain,
And do not doubt but you will reap rich felds of golden For there's a Heart, and therc's a Hand, we feel, but canWe're almays been provided for, and we shall always be."
" That's like a woman's reasoning ; we must because we must.
he sofrly said: "I reason not; 1 only work and trust The harvest may redeem the day, keep heatt what'er betide When one door shats, 1 ve always seca adolwer open wide There is a Heart, there is a Hand, we feel, hat cannot see We've always been provided for, and we shall always be."
He kissed the calm and trustful face ; gone was his restless She heard hi

## lane,

Siaging about her household tasks fall of a glad conten,
Singing to time her busy hands as 10 and fro she went:
We've always been provised for, and we shall always be."
Days come and go, 'tmas Chnstmas tide, and the great fire burned clear.
The farmer said: " Dear wife, it's been a good and happs year;
The fruit was gain, the surplus corn has brought the bay. you know.
She lifted then 2 smiling face, and said: "I told you so ! For there's a Heart, and there's 2 Hand, we feel, but cannot see
alt
We're always been provided for, and we shall always be."

## POISONS AND ANTIDOTES.

The following list contains some of the more common poisons, and the remedies likely to be at hand in honse-

## AO

Acids-These cause great heat and seasation of buming pain from the mouth down to the stomach. Remedies, magoesta, sodz, pearl-2sh or sozp
ase the stomach pump or emetic.
Alkalies-The remedy is vinegar.
Ammonia-Renedies, lemon juice or vinegar.
Aicohol-First ciean out the stomach by $2 n$ emetic, then dash cold
harishorn).
Arsenic-la the first place, evacuate the stomach, then give the white of eges, lime water, or chalk and water, chatcoal, and the preparations of iron, pasticolarly hydrate.
Whate lead and sugar of lead-Remevies, alcm, cather-
tuc, sach as castor cil and epsom salts especially.
Charcoal-In poisons by carbonic acid $\overline{\text { grs }}$, remore the patiens to the open arr, dash cold water on the head and
body, and sumulate the nostrils and lungs by hatshorm, at be sima sumurate he nostrils 2 it
Corrosive sublumate-Gire white of egps and emetic.
Belladona2, nighl henbsne-Give emetics, and then give plenty of water and vinegar, or lemonade.
slasbrooms-Emetres, and then pleoty of vinegar and water, with doses of cither, if handy.
Nitrate of silver (laner caustic)-Give a strong solation of comomon salt, and then emetics.
Snake bites, etia-Apply ammediately strong hartshom, 20d then take it intermaly: also give swect of stimatants freely; apply a ligature above the part bitten, and then apply 2 cupping glase.
Tartar emetic-Gire iarge doses of tea made of galls, peravizn bazk or white oak tark.
Vedigris-Plenty of mbite eags 20d water.
White vitrol-Give plenty of mill and waie:
Opinm-Gire a strong cmetre of mastard and mater, then strong coffee and acid drinks: dash cold water on the head ot the patient.
Nax rouica-First give emetics, then brasds.
Oxalic aeid (frequently mistiked for Eprom salts)-Give
cbalk, magnecia, or so2p and water, and other soorhing cbalk, magnesia, or so2p and water, and other soothing drinks.
he shasic acid-Wben there is time, administer chlorive in and tape of sodz of hime. Hot brandy 2od water, harishorn

## A CENTURY OF PROGRESS.

The last hosdred years hare seen the most sudden change in the British material and extercall life that is, pertappe, reconded in bistort. It is curions bow many things date from 2hat 1770 or 1750 . The zee of siecm in manafactirice 10 od locomonon by sea a ad lanc, the textile rerolation, the factery
 a rural 102 town lift, the porteatocs growth of the empire, of realih, of intercomenunication, of the post; then the ves
 or gas, electricity, teiegraphs, teiepkones, team presses, zew-
in the last ceniury Briuain was one of the lesser kingdoma in Europe, but one-third in size and numbers of France and Germany. Now it is in size twenty times-iwenty twenty times as big as eliher, and six or seven times as populous as either. Londun then was only one of a dozen cities in Europe; hardly of the arez of Manchester or Leeds.
It is now the biggest and most populous city in recorded It is now the bisgest and most populous caty in recorded histnry, nearly equal in size and popuation to all the capitals of Europe puL wewther. One hundred years ago to have lit The theatse $2 a^{2} t$ is now lighted, would have cost 650 , and sneff end exino or hree mides It an hour to ligh and snuif and expe man in chace minutes. A bundred yhers ling by one man in hree minutes. A huadred years cost on an average 5s.a head and two hours of weary jolting. We may get beme now for 4d, or $6 \mathrm{~d}, \mathrm{a}$ head at the most
 Dublin or Edinburgh it would have cost by coat (one hundied yers and about as in money and a fotnight in time You yous get a bower in thiny hours for two penny if you are as brief as the Prime minister. A hundrect yeara ago, if you wanted to go there, it would have taken year a week, and you rould bave to make pour will. You can now go in a day, and come back the next.-FForinightly for April.

## THE CHILD IN THE PRINTING OFFICE.

Who is the Man that is looking so hard at the Piece of Paper? He is an Intelligent Compositor. Why does he hold the Paper so ciose to his Ejes? Because the Correspondent who wrote it makes Hen.tracks. What is he who is the Other Mang going to the Case? That is the furious Foreman. What does he Want? He is going to Help the Intelligent Compositor decipher the hen-Tracks. Do you Think he Can do it? I don't tnow - he can do most Anything, but I Guess that will be Too Much for him. Now I see an Other man Coming. What is be Going to do? That is the Precise Proof Reader. He is Gcing to Cast his eagle Eye over the Hea Tracks to See where they Lead to. Do you think He can Find it out? No; Dot withont a Guide or a Calciam light. Now, here comes Another man-who is the Man? That is the Able Editor. Where did he come From ? From his Den. Now all the Men are close together-see 1 their Heads most touch-and they are Looking every One of them at the Piece of Faper. What do they do Thal for? Because they Are Concentratingt heir Giant intellects upon the piece of Paper to see What the hen. Track Correspondent means by his Hietoclyphics. Hzve they Found ont? No, they are stamped. Now they are going Away from the Case. Yes, And one of the Men bas chocked pe Piex of Paper into the Store. Who does hedo hall becauselie cin his fen- Tracks. Who is the Smaill Boy that has a Grin on his face, and his Hat turned up in Front? He is the Offce Boy. What is the Able Editor Saying to him? Fie is telliog him to go affer the Long Range shot Gan. What for? Beczase the
Able Editor wants to go hunting after the her. Track CorresAble Editor wants to go hunting after the hes. Track Correshim. Do you think the Correspondent onght to be Kulled? Certainly.

## "AS SAFE AS THE BANK OF ENGLAND."

"As safe as the Bank of England," is an assurance of safety which is nevel questioned. No one ever last modey in the Bank of England. Ite notes are good all orer the can go around at once with 2 gade. In one room notes that have been paid have the comers torn off and holes panched in thera. Over fifty thousand notes, worth 2 million pounds, are pand every dis, and thus cat out. Thes are kept five years, and if you give the nomber and date of 2 note, in less than three minutes it can be found; so that if you paid a note you owed and a man said you did not do so, you coald prove that you had paid it. The largest note is ove thousand pounds. One hundred and tweaty mien are in the room where padd Doles are clipped, and 1,200 in all the bank. All the notes used sre printed in the bank, and the prining machines keep reckster of every one. Here pensions are paid to crippled soldters. Heregold and silver plate-private property-is kept. Tro things I heard
interested me.
Gold is very britue," said our guide. "If interested me " Gold is very britue," said our guide. "II
neu throw it about opos a connter- hat is a number of gold precen-and then sweep it of the counter, you will find that the fraguents count up. We are rety carefal with them in the weighing room. All the gold sovereigas that sou pat in your pockets in the moroing with other preces of coin, $2 t$ night will not be just the same. We know that zod weigh erery sovereign that has once been out of the house. We beve sent boxes of gold coin by express that hare corme back to us anopered, pet the robbiag of the gold bas word
off fire pounds' worth." We came away, agrecing that this off fre pounds worth." We came surzy,
gieat bant is one of the worlg's mondera.

## TEA.

It is extimated that tea is babitually coarmed by not les than $500,000,00$ people, or 2boat onctant of the haman race Amongst the Chincte zod the inhabit2nts of japan, Thibe and Naparil 18 is dratk by all classes threc or four imes 2 day. In Asiatic Rasuia, in 2 large portion of Europe, in North America and in Aostralia it is a favomite beriage. In China tea has been ased as an articic of diet from 2 vary remoie period of antiquity. Carioas esough thes bave po recond or tradition respecting its frrt nintrodxction. The Japanese. bowerer, tell as tha: in the year 519 a holy man named Darma, the son of an Indian monareb, took refige in China, and pablicly taoght that the only ray 20 obtaia happinesa was io cal aothrag bat regciables and go milhoat slecp This enthasisstic regelarian and antimoppheesian Wex, however, on a hot summer's day, orerpone by drowri-
ness, and faily nodded before his congrexation. When he
 awoxe to 2 knowledre of his violation of his own preceph,
great was his scil-reproach, and being determiod ihat he

Wonld not trangriess the second time, he cut off his ere-lids
and threw them on the ground. In due time they took root, and threw them on the ground. In due time they took root,
and gradually develuped into the plant now known as tea. and gradually developed into the plant now known as tea.
Tea was probably first introduced into Europe about the Tea was probably frrst iotroduced into Europe about the
middle of the seven!eenth century, for in 16001 Pepps writes middle of the seventeenth century, for in 1601 Pepps urites
in his Diary: "I sent for 2 cup of tea (a Chinese drink), of in his Diary: "I sent for 2 cup of tea (a Chinese drunk), of
which I bad never heard before." At first its use was not which I bad never heard before. . At frst its use was not
very common, as in the same century the Eant India Comvery common, as in the same century the East India Com-
pany considered it a rare gift to present the King of England with two pounds two ounces of tea. The plant which yields the tea leaves is a native of Chna, and still grows
wild on the hills both of that country and Japan. The tea plants are raised from seed, which is sown in March. When a year old the young bushes are planted out, and when placed in rows three or four feet apart have some resemblance to gooseberry bushes. The season for gathering
yanes in different districts, but the princpal leaf havvest is in May or June. The leaves are plucked by women, and are usually gathered at three successive penods. The youngest and earliest leaves are the most render and deli. third gatherings are more butter and woody, and yield less soluble matter to water. The reluse and decayed leaves and tivigs are sold under the name of "trick tea."

## ESQUIMAUX DOG.TEAMS.

The dogs are attached to the sledge by hamess made of sither reindeer or seal skin. One loop passes around the neck, while each leg is lifted through a loop, al, three loops These lines are of different lengths, 30 a 25 to allow the dogs these elines are of different lenfths, 3025 to allow the dogs
to pull to a greater advantage than if all the traces were the to pull to 2 greater advantage than if all the traces were the same leogth, cansing the dogs to spread out hike 2 ian . At
every few miles the traces have to be unlousened and extricated from the most abominable tangle that it is pussibic to conceire. This comes from a habit the dogs have of conconceire.
stantly runing under and over the other traces to avoid the whip, or, in some cases, merely from a spirit of pure deviltry.
The leader of the team is a dog selected for his inteiligerce, and is one knuwn as setting an example of constant leader of a team of dors working as if the load was being drawn by him alone. He אoes along, his head bent over, and tugging in his hamess, bus mouih open and fis tongue of command from the driver. To go to the left the command is given, "A'-root," and to the tig"t, " Why-ah'why.ha." Then he samelimes, to encourage or urge to greater exertion, says, "Ah-wah hagh-00-ar." To s.op the team, he says, "Whoah, "as one says in driving norses. It is always talking to his team, calling each by name, and usually fallowing the word by a blow of the whip, so that the next time that dog is spoken to he will understand that it means to "hurry up." The work of the diver is not confined to his team. He has constantly to keep watch over the froat of the sledge, to tura it to the right or left in order to avoid hummocks or stones that would up
load or tear the ice from the bottom of the runners.
Inuus are fond of riding on a sledge while travelling, and as leng as there is 2 spot that will hold them they will pile
up there. But should there be no place for them, they will up there. But should there be no place for them, they will ran alongside withont any appareat discomfort for almost any
ledyth of ime or distance. This is equally true of the length of iime or distance. This is equally true of the children of both sex, and when any are compelled to walk for lack of dogs or room on the sledge, it is the women and gitls whohave to give way to the men and boys. With a
lipht sied, and from nine to fifteca cood strone doss, the fight sied, and from nine to fiftecn good strong dons, the Esqumarx of Hudson's Bay will sometimes make a joumey
of fromenghty to one handred miles dumg the long days of cf from
spring.

## HELEN CHALMERS.

Helen Chalmers, the daughter of the great Free Charch leader, sacnficed the bloom of her life and her womanly hopes to care for her venerable father in his dectining years to this she took quarters in the worst distict known in Edinto this she took quarters in the worti disitict knowa in Edin-
burgh, and devoled her life and being to the relormation and salvation of the masses aroand her, who had been, io human alvation of the mases aroand her. who had been, of human
appearance, rained for both worlds by the demon of strong drink and acoompanying vices. On her way to her tempetance anecting one evening, she called apon a family to persuade toe intemperate hurband and father to zecompany her to the place referred to. She found there a visitant deeply intaxicated. As soon as he sam her, he began of corrse "to alk religion, eading with the compiacent remark, "Well, t will all come out right at last, and I shal! find mpreif in the belter land, 25 well off 25205 of 500. Wont it be so, Miss Chalmens? She prompily opened her Bible, and with 2n emphasis pecaliar to herself, read the passage, "No
drapkard stanl inhe-it the kingdom of God." The man kas drapkard stanllinherit the kingdom of Got." The man kras sobered in a momear, acoompanied her to the meeting.
siged the pledge, 2ad nas saved. Alany have been acd sigued the pledge, 2nd mas saved. Many hafe bece 2ed
are living thas sared throuch ithe prayers and influence of are iving thas sared iarough the praytrs and intivence of
this saint of God. The life of even Florence Nightiagale this saint of God. The life of even Florence Nightingaic

## THE HIGHLAND TARGET.

Mapy readers will be surprised tolearn how moderate fere its dimeasioss. The specmens bere figured are not more thas ineaif or tweaty-one ioches in diameter-somemhat aboat hall the Fidth of the great rompd shield borae by the Homerre berocs. Probably the Highlamdmen were in the right of it; their target made op in hendiacess what it seadily morable, and to a certain extent it coald cres be a readity morable, 33d 0 a certain extent it conld cres be 2
weapon of ofience, fot in screral of these examples a formi. weapon of onence, for in screral of these crampies a formidable spike maj be anixed ta the cealral boas. When this is dot in ase, a case is provided for it io the decrskia lising with leather; the metal-oorered or metal shields are found
only as exceptions. Mr. Drummond has figured one bronze shield dug out of a marsh, and ornamented in a thoroughly archatc style, and one plain iron one, of whose date nothing is stated or conjectured. The regular covering of leather gave ocasion ior excellent ornamenta work. iolng and explained in bookbinder's language as bhnd toolng; and
indecd there are many patierns on these targets from which the modern bookbinder might well take a rint. The flowing interlaced curves of some of them show a really admirable decorative taste and execution. We likesvise find-sometimes together with this kind of ornament, sometumes instead of
it-symelncal arrangements of nail-heads and metal studs, and now and then of larger brasss plates. These additions would to some hen ort inger brass piazes. These additions would to some extent increase the strength of the target, bu
their first purpose was evidently decoralion. It was nol until the sevententh century that shields wete fairly discarded in the sest of Earope. The swordsmen of Italy and France made the discovery, which at the ume must have France made the discovery, which at the tume must have
seemed a paradox, that the sword is stronger without the shemed a paradox, that with it. But the discovery was long in travelling northward; the Highlandman clung to his target for more than a century later, and its final disappearance from Ceriandy one tho ponssessed much beyond hiving memory figured here might be exsused for not willingly puting it aside as obsolete.-The Safurday Lirviev.

## THE BE: TTER LAND.

I know not where that city lifts
Its jasper walls in air,
I know not where the glory beams,
I cannot see the raviog hands
I cannot see the maviog han
C'pun that farther shore.
I cannot hear the rapturcus song
Oi dear ones gone before;
But dimmed and blinded easthly eyes, Washed clear by contrite tears,
Sometimes ca'ch glimpses of the light
From the eternal years.
-L. M. Latimer.
IN THE MORNTNG SOW THY SEED.
Sow, though the mek repel thee
In its cold and sterile pride;
Some cleft then may be riven
Where the litle seed may hide.
Fear not for some will foutish:
Fear not for some will flourish
And though the tares abound
And though the tares abound
Like the nillows by the waters
Will the scattered grains be found
Work while the daylight lasteth
Ere the shades of night come on,
Ere the Lord of the vineyard cometh,
And the labourer's work is done.
EFFECT OF THE BIBLL.
Taine's "English Literature" has 2 remarkable passage, with reference to the effect of the Bible on the English people, as sead and learned for the first time from Tyodal's Transiation:-
"Ooe hid his book in a hollow tree; another learned by heart an epistie and a Gospel, so as to be able to ponder it to himself even in the presence of hus accusers. When sure of has farend, he speaks with him in private; and peasant taik:an to peasant, labource to labuurct, yuu hnow what the
efict conld be. It was the yeoman's sons, as Latimet said, effect could be. It was the yeoman's sons, as Latimer said,
who, more than others, maintained the faith of Christ in Encland, and it zias with the yeoman's sons that Cromwell afterxard reaped his Puritan victories. When such nords are whispered through a nation. all cffcial roices clamour in vane. The nation has found its poem, it stops its ears to the troublesome would.be dastraciors, and preceatly sings at out wath a fal voice and from 2 fall heart. Mur the con.
tagion had even reached the men in uffice, and Henry $v i l l$. tagion had even reached the men in wfice, and Henry Vill. 2t last permited the Enclith Buble to be fublishis. Eng
land had her bwok. Everyone, says Strjpe, who could land had her book. Everyone. says Strjpe, who could
boy this book, euther read it asiduuusly or had it read to boy thas book, elther read it asuduuasly ur had it read to
him hy others, and many well adraoced to gears learaed to him thy others, and many wit
read with the same object."

## DOMESTIC HABITS OF VARIOUS NATIONS.

When 2 Japanese woman reaches her hoose, she takes of ber sandals, pushes aside the slading donrs of paper and enters in her siocking feet. The rooms are softly matted, but
contan Do farnalure. The houses are balt of wod, and contan no faralure The honses are balt of Fwad, and
among the poorer classes have but tro or three rooms. In the kitchea is 2 large stone box with ashes and bamiag coals in it. This is called the hibachi, and orer it the tice is cooked. There is no chimneg in the kitchen, bat the smoke eoce ort cither through the broad open door or through 20 opening in the roof. After the nee is cooked, it is puit 13510 osmalt, unpainted wooden tab. At dioner-lime, the mother briegs oat 2 latile tabic, tho leet square and one foot bigh, with dishes and food upoa it. The family sit opon the mats,

 swett poiaiocs and pickic are sometimes serred with 2 dinner.
Japaocse howses oftea have but one sleepicg-rooss, which is ocecpied by the eatire famils. Whea gecsis come they
share it with them. The beds consist of heary comforter share it with them. The beds consist of heary comforters. They ere spiead oat on the mats at night and pat away in
the closets duriog the day. Each perroon lajs his head oa a the closets dering the day. Each person lays his head on 2 which the head reats, Ia some room ta the hoase is a closet contuining a shelf for cods, and upon this shelf stand all the homectrol
fanidy
from
generation to generation.

## FAMILLY LIBRARIES.

Every family should be supplied with books, and each household should, as far as their sbility will allow, procure a family library. There is no estimating the value of a few well-selected books. Children should be induced to begin early to improve their minds, and nothing draws them more to study than good, sound periodical literamed and well. their education. Money cinnot be better expended. In. stead of toys and perishable gifs, purchase books lor your children. Every few months add something new to the library, and be sure to preserve the old works. Let there be in the house a book-case, shelves, some place where the books and papers are deposited; have them carefully preserved, and soon a litle handful will swell into armfuls, sad the minds of the children will expand pith the increase and much knowledge will be gained by the growiag chil. dren.
Good books, a taste for reading, will keep the children at home and make them happy in the family circle, when otherwise they will be straying off, huntiag society, looking for something to engage the mind and satisfy the cravings of a hungry intellect. Games and worldly amusements are substitured for books and intellectual cultare, where there is no library at home, no food for the inquiring mind. Let parents think of these things. Much, very much, depends
on the early trainang of the child in regard to study, as well on the early tral
as othe: things.

## MACAULAY.

As soon as he had got unto his head any particular episode of his history, he would sit down and write off the whole story at 2 headiong pace, sketching in the outlines andet the
 cur:ng in back awd whrie echeh icea and epither and hifa of
phrase, as it flowed straght from his busy brain to hasy phrase, as it fowed straight from his busy brain to hia bosy
fingers. Ilis manuccript, at this stage, to the eyes of anyone tingers. ilis manuscript, at this stage, to the eyes of anyoae
but himself, appeared to consist of columa alter column of but himself, appeared to consist of column anter column of
dashes and finurishes, in which 2 stranght line with a half. tormed letter at each end and another in the middle did du'y for 2 word.
du'y for 2 word.
As soon 25 A acaulay had finished his rough dran, he began to fill it in at the rate of six sides of foolscap every muming; written in so hine a hand, and wua such 2 mulage composed into itro pages of print. This portion he called his "task," and he never was quite easy unless he completed it daily. More he seldom sought to accomplish; for he had learned by long expenence that this was as much she could do at his best; and except at his best be Dever
could wnte at all. He nerer wrote except he wass in the humour. and stopped 25 so00 as his thoughts ceased to flow fast. He never allowed a sentence to pass until it was as good as he could mak $=2 t$. He would recast a chapter to obtain 2 more lucd arrangement, and reconstruct 2 para-
graph for the sake of one happy stroke or apt illustration. graph for the sake of one happy stroke or apt illustration.
He spent nineteen days over his description of the Masctere of Glencoe, and then expressed dissatisfaction at the resalt. -Youtt's Compariors.

## BE STUDIOUS.

Whitfield was poor, and in "service," bet be managed to get education; and hoth England and America have felt his power for good. William Harrey did not find out the circulation of be human blood by a lackg accident. He tras 2 hazd student at home and abroad, and taught the doctrine o his elasses for ten sears before he prblisted it to the world. Young men ought to remember that there are still splendid services to he rendered. All the discoveries have not jet been made. The field is nor the world, as it rever was
hefore. The best books an now be had, is is Edecation of the highest kind in physiology, mental philoerphy, engineering, chemistry, is accessible as it never was belore. An empire wi.h yt an emperor has grown op on
this continent, and mech of the mili is jet witboat occupant and master. Oiber empires are open to educated ability, and will become more so every fear. There is a legitimate sphere for splendid ambition.
Let out bojs foreno the cost of tobacco 2ad catch inspiraconting the best books. Let them tem their backs on the empling glass, and spend their maney in sumaliatiog the
mind. Even 2 ashion "parties" and pleasure may be put mind. Eren lashion pantics and pleasure may be put
in the backgmund, that the time and thought required for in the backgmenc, that the time and though required for
thect may be civen to geting that rental habit and furaithem may be civen to getuing that rental habit and farai-
tare that will make its poscessor a helper to his race, and 2 are that will make ite poncessor a he per to his race, ard 2
capable servani of that Creator-the "Father of Lights"who has siren us brain and heart, with capabilities, that we who be lighis, benefactors, zad conqueroin, on felds where no life is lost, and even the vanquished are gainerm-Ir. jois Hall.
It is said that President Arthurs weighs exactly 250 pounds.
TuE electric light has been introduced into Shapghai, Thina, and is excring much enthassism among the Chinese.
THe rillage of Grindelwald, in Switzerland, $=0$ familiar to ourists, has been almost estirely destroped by 2 harricase.
At Ayt biring fair last week, some farmers offered an addition to the wases of men who promised to abstain irom the use of strong drink for 2 jear.
AT 2 sicnographac Exhibition in Pans, wrenty-four different systems of shorthand are on riew. Amoag other cenostutes, the ec is a post-card con:aning 44,000 words.
TuE Dake of Edinbargh is aboot to become a teanat of The home farm at Exsiwell, Eng., 200 of the exitasire palarisise.
cal
Av Enclish company oficrs 10 dria the graters of Lake Gearva, in Swilzerland, into the River Rhooc, and to pay
Si,000,000 fo: she privileme, provided they an tare tand that will thus lett dry.

## YOUNG CANADA.

## LITTLE GOLDENHAIR.

Goldenhair climbod upon graulpa's kneo: Dear littue Goldenlair, tirod was sho, All the day luas as busy can be.

Op in tho morning as soon as 'twas light, Oat with tho birds and batterlios bright, skipping about till the coming of night.
Grandpa toyed with the ourls on hor head.
"What has my darling boen doing," he said,
"Sinco she rose with the sun from her bed $?$ "
"Pitty much." answerod tho sweet little one,
"I oannot tell so mach things I havodonoPlayod with my dolly and tualod my bun;
"And then I jumpod with my littlo jump.rope, And I made out of some water and soap Bootifal worlds-mamina's castles of hope.
"Then I have readed in my picture book, And Bella and I, wo went to look For smooth little stones by the side of the brook.
"And then I comed home and cated my tea, And I climbed up on grandpa's knee,
And I's jes as tired as tired can be."
Lowar and lower the little head pressed. Ontil it had dropped upon grandpa's breast ; Desr little Goldenhair, sweot be thy rest!
-We are bat children; things that we do Are as sports of a babe to the Infinite vier, That marks all our weakness, and pities it, too.
God grant that when night overshadows our wsy, And we ahall be called to acoount for our day, He shall find us as gailtless as Goldenhair lay.
And oh, when afoory, may wo be so blest, And aink liko tho innocent child to our rest, and feel oursolves clasped to the Infinite breast.

## THE DOG AND THE STEER.

Harry, Lizzie, and Milly lived with their parents on a farm in the country.

Not far from their house were fields and meadows in which grew grain and grass, and sometimes also dandelions and buttercups. Here they used to play in summer, and sometimes they carried luncheon to their father and his men when at work in the fields.

Beyond the fields were the woods, where they often went to pick berries or gather nuts. They had a friend that nearly always went with them. His name was Bull. He was no bull-dog, however. He ras a mastiff, and considered it his duty to take care of the children. He allowed no strange dog to come near. If eny persen whom he did not know approached, he soon told him, in dog language, not to touch or harm the children. If he came across a snake he would seize it with his teeth and shake it to pieces before it had time to bite.

The dog had very good manners. When told to shake hands, he would politely hold out his paw. He never went where he was not wanted, but kept at a respectful distance until called, or until he saw that there was something for him to do.

One day as the children were crossing the fields, a furious steer came rushing after them. A steer is a young ox. The children ran as fast as they could, but the stecr ran much faster. Before they reached the fence he overtook Afilly, who was the smallest, and was about to attack her with his horns. Just then the brave de.g caught him by the tail and bit him so bard that thie stecr turned on him and Milly hed time to get through the fence safely.

But the poor dog was tossed upon the horns of the steer until some men, who ran to his assistance, drove the steer away and fastened him in the stable.

Little Millie was saved, but poor Bull was hurt so badly that he could not walk for a long time.

The children brought their little waggon, lifted him gently into it, and took bim home. They made for him a soft bed of straw in the wood-house, and fed and nursed him until he was well again.
He continued to live with the children and their parents until he was very old.

This is a true story. Bull had one fault. He would tear up the children's school books whenever he could get them. Perhaps he did not like to see the children go away to school, where he was not allowed to follow. Perhaps he thought (if dogs can think) that if there were no books the children could no longer go to school.

At least little Mrilly said that was his reason, and she seemed to understand him best.

## PETTING THE TIGER.

I remember reading of a mother visiting a menagerie with a lovely infant in her arms. As they stood by the tiger's cage, the animal, apparently quiet, permitted the caresses of the babe. The mother, thinking it under the control of its keeper, and caged in iron bars, relaxed her vigilance, when suddenly the tiger scized the child, and in one fatal moment mado it its prey.

I thought as I read the paragraph, how many worse than tiger's cages we have all over this loved land of ours. They form almost an unbroken network from ocean to ocean. It is a palace-like building here, a less pretentious one there, and a shanty down by the railroad. Each holds alike the same enemy, the sparkling wine-cup.

Do you see those two friends shaking hands so heartily on the steps of yonder grand hotel? They have not met since hoyhood's days, and now middle age claims them.
"Come in, Fred. With a social glass between us, we'll talk over bygones. Waiter, some of your best champagne. No shaking of your head, Fred."
The champagne is brought, and the friends are quickly reviewing the past.
"Have your glass filled again, Fred; 'tis really worth your while to take a draught from these glasses. The design is a triumph of art. We have lived thus long without any harm from the checrful glass. We bave wills strong as iron bars, and they can guard with master-like vigilance our failings-if we have any."

A third time the glasses mere filled, and, "Here's a double health to thee," was sung with the vim of college days.
Then they parted. Bat mark the sequel. The appetite, which they boasted was caged with strong wills, had not then been caressed. The desire became a tiger, and ere long one of the jolly friends filled a drunkard's grave, and the other, a wreck, dwelt in a maniac's cell.

## PAWS AND CLAWS.

"Mother," said little Nannic, "sometimes pussy bns paws, and sometimes she has claws. Isn't that funny? She pats with her paws and play prettily; but she scratches with her claws, and then I don't love her. I wish she had no claws, but only soft little paws; then she would never scrateh, but would be always nice."
"Well, Namnie, dear," said her mother, "remember that you are very much like pussy. These little hands, so soft and delicate, when well employed, are like pussy's paws-very pleasant to feel; but when they pinch or scratch or strike in anger, then they are like pussy's claws."
"Well, that's funny enough, mother. I never thought that I was so much like pussy."
"You love pussy much," said her mother, "and you may learn a good lesson from her. When you think kind thoughts, and speak gentle, loving words, then you are like pussy with her nice, soft paws, and everybody will love you; but when you think bad thoughts, or give way to ugly tempers and speak cross and angry words, then ycu are like pussy with her sharp, scratching claws, and no one can love you."
Nice soft paws are much pleasanter than sharp, tearing claws And so gentleness is much pleasanter than anger or wrath, and this is a good reason why we should try to learn this lesson.

## HOW CHICKENS GET OUT OF SHELLS.

Take an egg out of a nest on which a hen has had her full time; carefully holding it to the ear, turning it around, you will find the exact spot which the little fellow is picking on the inside of the shell: this he will do until the inside is perforated, and the shell is forced outward as a small scale, leaving a hole. Now, if you will take one of the eggs in this condition from under the hen, remove it to the house or some other suitable place, put it in a box or nest, keeping it warm and moist, as near the teniperature of the hen as possible (which may be done by laying it between two bottles of warm water upon sume cotton or wool), and lay a glass over the box or nest, then jou can sit or stand, as is most convenient, and witness the true modus operandi. Now watch the little fellow work his way into the world, and you will be amused and instructed, as I have often been. After he has got his opening, he commences a nibbling motion with the point of the upper bill on tho outside of the shell, always working to the right (if you bave the large end of the egg from you and the hole upward) until ho bas worked his way almost round, say with onehalf an inch in a periect circle; he then forces the cap or butt end of the shell off, and then he has a chance to straighten his neck, thereby loosing his legs somewhat, and so by their help forcing the body from the shell.

Max will feel himself an orphan in tho world, and cut off from the hope of a solution of his destiny, unless he may believe that there is a tie of sempathy and relationship between himsalf and his Master.

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friends suffer, but use tod unge them to use Hop Butters,
If you have lameness in the loins, with frequent pains and aches; numbness of the thigh ; seanty, painful and frequent discharge of urine, filled with pus, and which will turi red by standing; a voracious appetite and unquenchable thirst ; harsh and dry skin; clammy tongue, often darkly furred; swollen and inflamed gums; dropsical swelling of the limbs; frequent attacks of hiccough ; inability to void the urine, and great fatigue in antempling it-you are suffering from some form ol Kidney or Urinary Complaint, such as Bright's Diszase of the kidneys, stone or inflammation of the bladder, gravel and renal calculi, diabeles, stranguary sticture and retention of the urine, and Hop Bitters is the only remedy that will permanently cure
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Don't risk any of the highly lauded stuff with testimonials of great cures, but ask your neighbour, druggist, pastor or physicians what Hop. Bitters has and can do for you and test is.

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Qaick, complete core, all annoging Kid. nes, Bladder and Urinary Diseases. SI. Draggists.
TuERE are tertain fund mental truths that remain uncharged after al in parling that is concuacted over themy If
for a time, it maust be but sor when they will reappear as cleaj/as cect. EKINNY EEEN:
"Wells ${ }^{*}$ Health Renerer " restores beallh 2nd vipour, cures Dyspepsia, Impotence, Sexual Debility. \$r.
How beartifal our lives wocld soon grow if we caried slways with iss and pat into practice the lessoa we lear by experience! We look back at the evd oot the yezr and see many things that cause bptes legset, but instead of leaving them behera we fo on repeating the same follise 3 nd of of fin the new yenr. A litue brioiof edfon would
enable us to cise every dis bitakes of conabe us to rise every dus pryntiakes of

""، By asking tco moch we way lose th: litle we had before". Eldaer-Wortaskspopoloss of tuith in its vintues A lady writes from Oregon: "For thinty years I have been afficted with kidney complaints. Two packages of Kidnej-Wor have doese more good than all the medicioe and doctioss I bad belpre. I believe it is 2 sure cure."

## \$rieutific auf

A little water mixed in with butter will prevent its burning when used for frying. Tirs leaves of parsley caten with a little vinegar after partakiog of onions will pre
vent the offensive breath that the latter im vent
Tender tops of new beats if boiled, and thed fried in butter, make an excellent parnish or relish for roast polk, or for bee Drain them well before frying.
Penorian 8 nup lass cargip thousands who woro sufferint from Dapopais, Debility Livor Gomplaint, Dild Humours, Female Complames, eto. Fampliots ireo to any Eold by dealgr generally.
Curry binegar is made by adding three ounces of curry powder to one quart of vine gat ; let it stand in a covered earthen dish or jar near the fire for three days. This gives an excellent flavour to all kinds of sour pickles. Remember, when using it, that a little goes a great way.
Flannel that has become yellow from being badly washed may be nicely whitened by soaking it two or three hours in a lather made of one-quarter of a pound of curd soap two tahlespoonfuls of portered borax, and two tablespoonfuls of carbonate of ammonia dissolved in five or six gallons of water
I: making soup, it is better to boil the vegetables separately from the meat and strain both meat and vegetable water, and mince the vegetables before putting them with the so strained liquors. Soups are more wholesome, and far more palatable for hot weather than meats, but a good piece of meat is required to make nourishing soup.
To Make Bread.Pudding.-Put the scraps of bread intu the oved and loas brown, roll them, while hot, quite fine. To two cups of crumbs, take one quart of milk. three eges, one cup of sugar, one cap raisins. Sauce for the above, one cup of sugar, one tablespoonful of butter, the same of flour; mix together, then add the juice of one lemon, or aoy flavouring desired.
Cracred wheat makes a very nice dish if baked with plenty of water added from time to time 25 it is needed, 10 allow the wheat to to six hours and it will theo be found to be remarkably sweet and wholesome. It is delicious if baked with milk instead of water, but will then need more attention when in the oven to picrent scorching.

- Hate Wistin's Balgay of Fifid Cazrrt alrags at hand, 1 c curgo Coughs, Colds, Bronchitis, Whoopib, Cough, Croap, In-
inenza, Consampion, Lang Complaing Fifty Cests and $\$ 1$ a bottio. Sola by daslers genersily.
POTATO puff with the addition of a litile cold meat makes an excellent breakfast dish To two cups of cold mashed potators allow melted butter and one cup of swet milk meat all together until very licht then add beat an logether unin very light, then add mixing thoroughls put it in a shallor pudding dish, and bate for from twenty minutes to halfing hour. If preferred, you can bake in well buttered gem-pans. Baranas are delicious for tex; sliee them - not too thin-scatter powdered sugar ovec them, and before it dissolves squecec the may be cut up and mixed with them, or they may be cut up 2nd mixed with them, or hes They make an arecabledessert with whipped They maxe an agrecable desser with rapped crean sweetened end gavoured with ranill poured over them. A tablespoonful of gela 2 little bods to it. Serree prith sponce-cake

A NICE and casily made snct padding is made of one cup of suel, chopped hine, and with erery bit of grisule rerroved, one cap cach of molasses milk and frait ; raisics and carranis mixed, or dried, cherries are better for this perpose; one beaping tablespoonful of sodz, dissolved in 2 little hot water, 0 m plete the ingredients called for, with the ex cepion or hoar enough to make asi.. balter. rake care to stir the flour in so gradaally as to be certain not one lomp, if ever so small, for three hours in an earthen pudding-dish with common padding snuce of four, sugar, with common pad
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TORONTO WHOLESALE MARKETS．
Office Rural Gamadun Toronto，Nov． $155 \mathrm{~h}, 1889$.
Matrix．－There is very little activity no sulmale are offering for export，and even good butchers beeves are form；those sold al 430 to 490 ．Ordinary or inferior at 90 ．to 40．par lb．，live weight．Sheep in moderate supply，bat ohio ones scarce，$\$ 425$ to $\$ 5$ are ruling prices．Lambs bring relatively bet tor price，ranging from $\$ 3.50$ to 84.50 ． Hogs coming in ready，fat ones bring 86 to $\$ 625$ per 100 lbs．alive，hogg for fattening bol at about 95 ．
Gris－Tho quantity of various grains in store at Toronto wharves and elevators on the lath inst．and at other dates，was as nader in bushels ：
Nor， 18,
is，
Nov． 62,
Nor． 14, $\begin{array}{llll}\text { Fall wheat．} & 101.495 & 98.081 & 150.711\end{array}$ $\begin{array}{lrrr}\text { Spring wheat } & 25354 & 26400 & 33,745 \\ \text { Barley } & 201.505 & 225,483 & 914,163\end{array}$ $\begin{array}{lrrrr}\text { Barley } & \ldots . . & 201,505 & 225,483 & 314,163 \\ \text { By．．．．．．．} & 11,893 & 17,637 & 9,917\end{array}$ Peas ．．．．．．．5，459 3，860 7，321 Total bush． $345,646 \quad 869,461 \quad 521,857$
Fall wheat is quiet since shipments via St．Lswerenoe route are over for the season ； prices romain without change from lass the millers 1，and there is very little No． 1 to be had． Barley continues to move out freely；the bulk of the apply consists of Nos． 3 and 3 extra，which wo quote 570 ，and 640 ．respec－ lively．The price may fall below these hares by reason of higher freights，tho Oats are in dom end with almost no stock； 390．would be psid for good No． 1 Prat 890．woald be psid for good No．I．Prat and rather easier．There is a local demand for Corr，the Street Railway Company be ing in the market as buyers at 72 c to 750 ．

Woor－There is a good demand from the factors for medium and fine，with no movement in fleece．Canadian pulled lamb and super．，270．to 290 ；pulled extra，33c． 0 350．；fleece clothing fino downs or cross breeds，sic．to 880 ．；pulled combing a
Provisions．－We have to report a quiet reek＇s business．Prices are for the most part unchanged in hog products although there is a weakening tondenos．We quote mes pork $\$ 23$ to $\$ 24$, bat can hoar of no lock on hand．There has been a fair jobbing demand for long clear bacon，and sales here mould bo no som difoulty in got ting the outside price smoked meats hero proved in rood repast broetfast bacon polling at 150 ，roll e 140 to 1 a The receipts of dressed togs in the mar continue limiter and hears tiophor ringing 810 ，and harp brings 1 Button Choice credos are still in satire do－ mend while poor quality has tow admurere Chess contionas quiet and steads with nils jobbing trade passing mentor win hold for 120 ．having refined 113 c ，hence out of 1950 bores offered on 14th st the Ingersoll market，none Fere sold Hots－ Every bolder is buoyant，sad none killing 0 sol，there res s sale hero last meek to country braver at 85 c ．，and best new Canadian have since broaght 90 c ．and 9 ic ． indeed dealers woald pas 90c．for choice， bat ac quantity offers．


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