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Tho termg of paymont Fill also bo vary llber al only 50 GEN: S An acre down, tho batance This offer pink be upen only between the $15 t$ day of Aferch and tho 31 th lay of Docember First spplicanty Fill have their choico from ho antiry fald withont noserve.
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cumbined Malk Bucket and Stool. (DOMRNION PATENT.)

This 3urk Baokot an 3 Stool is fuvaluableoto tarmers and all porsons connoctod with the all
ing. baying, or handing of milk. BY ITS USETho milk is kept puro and
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The family farourits and standard nanufacturing mackint.
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mitet, and in fect anything a family would Fant It is not a common ofrcular machino
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8250, placos it whin the roach of all. IE 18 a time and iabour eaving machino, is substantial and enduring, and is cheap. From trial in the household Fre can testify to its excollenco." It. "The Modol Washor and Bloachor Which bir. C. W. Donnis oflors to tho pubilo hes many and raluablo adrantages. It is a time and leboursaring machine, is substantial and onLousoh, and is Fort oheap. From trial in the Send for circulars. Agonts wantod.

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NON-DENOMINATKONAL Sunday Schoon Papor,

TERKS YOR TEMCORRERT YEARI

 Axy eramber exphoding oat hancred at semorato,

carladian sabbath schpols
C. ELACEETT ROEIREOA. Na 5 Yinime Struet 7 eromen




## A COMMOH SEMSE THEORY.

ERegardingthesrentment of Uhrenlo Dinenme.

The Brain is the great Eleotro. Mrotor power of the body, sending out its multitudo of wires in the slapo of Nerres to operatn on all the organs of vitallty so keep the organs in ection and to stimulate the puleo to buat the heart to throb and the yital current to flow. Tho heart 18 the grand organ of oirculation, a doublo foreo pump to aupplip a perfect distribution of the teluent fue Liver aucratee bule. nature o true athartio and hkomiso siltars tho blood of its impanides. The gtomedh is the grand central reoopteolo of naturota fuel, food. Tho Luags are the bellows of nature to fan the vilal spark to a brighter, purer famo; they oxydize and purify tho blood, giving it vital vigor from the air we breathe. The Bowels, the Stin, and the Kidnoys are the slaice. ways or eacapo safety valves of nature to carry off morbid and effete matter from the system. This constitutes the great mechanism of lifo. If the Liver fails in its oflios, the blood. beoomes ologged with impuritios, the Bowels coase thair proper aotion, other organs bocomo overtaxed per rerteior debilited, and serious illuess ensues. By errors in diet, or mode of living, the various functions becomo impared, and often require cor. reoting or gently stimulating to aid and right them in their work. The biood is veritably the life; rithout it in its parity there can be no health. Cleanse the fourtain and the tributary streams will flow freoly and parely. Keop the Langs filled with pare air. Support the stomsch with simple, plain, easily digestod and nourishing food. Keep the Brain actively and cheerially angagod in pıeasing thought, caltivating a healthy moral tone of mind. Keep tho Bowels regular, by a proper action of the Liver. Keep the Bkin dean and the Fidnoys freo to carry ofl imparitiss that accuma Iato. Koep the circulation equalized by bathing, exercise, and gentlo bat ratural stimalution, and sickuess will bo a stranger to jour home. Borbocx Blood Brimers, Neture's grend Rastorative, Benorator, Blood Parifyer, Liver, and Fidney Elegulator and Matchless Tonic, Fill act diractly in hermong with nature's lapra. It is a fafo and parely regetable compound thet sots at once sud et the same timo ou the great ounots of disease, the Bowels, the KJaneys and the Bhin, by resulating and stimulating the wocretions to a hoalthy aotion, whilo hand in hand with the purifying proeseg comes the Javacorakng Tonio inflarnce. it parines tho blood irom ald humers, from a common pimple to 4. sorofalons gore of years daration. It regulates the Liver, acts powerially on the Kidners, stimalates tho sbsorbents, and the orgams of seanetion, and is tho great hoalth rastoring romic for Femzio no General Dobil lorms of Neryous and General Dobil ity sud all those Chronio sialadies cat tona theraras a Consumptivo or Serofulons condion. All is is no highly rauried Care All-but simply sets in harmony with Natare by anesting common-senso priaciples. For sbucdent pros of rolantary tostimonito our ntumerons volantary toftimoniNa tizatits constanky increasiogpopalerity are bringing fortw, which wo chocriolis supply on applioation. Amodg otier remarizable cares may bo nextionad-Scrofala, Livar Cons pleint, Drepipsia, Dropey, Bueumaurm, ha Fieracher Chrcnio Sores end Chromia Kierdaches, Chrenio Soret and Blocd Gumose, sum Nervoas and dencaind waro cared, why may it not dapaind

THE KEY TO HEALTH.


Unlocks all the clogged avenues of the Bowels, Kidnoys, and Liver, carrying off gradually without weaking the system, all the impurities and foul humors of the secretions, at the same time Correcting Acidity of the Stomach, curing Biliousness, Dyspepsia, Headaches, Dizziness, Heartburn, Constipation, Dryness of the Skin, Dropsy, Dimness of Vision, Jaundice, Salt Rheum, Erysipelas, Scrofula, Fluttering of the Heart, Nervousness, and General Debility; all these and many other similar complaints yield to the happy influence of

## BURDOCK BLOOD BITTERS.

BURDOCK BLOOD BITTERS
OURES

## DYSPEPSIA.

## Fead the following:

T. Nembeby \& Co., Toronto:

Dear Sirs,-I had suffored for fifteen years with Dyspopsia, and tried with almost arery known remody to effect a core, but without success. Last sum. mer I grew so bsd that I had giving ap all hopes of living, when a friond parsuaded mo to send to J. E. Kennedy's drag store, in Cobourg, and procure a bottle of Burdook Blood Bit. ters. I did so, and the third day after I commenced naing it, I began ry feel botter, and before I had finished the first bottle I was able to bo up and around of Fork, and after tating three bottles I was completely cared, and am now in bettar healith then I had becn for twontyyears.
Bofore using sour Bitters I would noi have given ten cents for my chance of living, and now I am-in tho bost of health, and you have my permissinn to pablish this that othere, suffering as I was, may read and be bonefited.
A. Bonxs, Blacksmith, ?

Fr Fingston Rosd, 3Imilea east of Cobourg, Januery 11, 1883.

The abovo is but one of many voluatary teetimenialsconstant is being recoived regarding the care of dyrpepsia.
$\frac{\text { Eroh Eottle Contains }}{3100 \text { 00sEst }}$

Burdeck Blood Bitters BURDOGK BLOOD BITTERS
curies

## sCROFULA.

Fact Seranger than Piction
Frahtilune, April 21, 1882.

## Mrssas. T. Mmblon \& Co:

Genthembs, -In November last, $I$ was taken down and had to quit my business and go to bod. May trouble seemed to be in mey liver and kidneys. This oondition came upon me grad. ually, and I ran so low that my lifo was despaired oi. I lay a one time 10 days withont an operation of the bowolr, and at another time 18 days. kiy urine was thisk, and clonded, and sedimentary. At this time I commanceal taking your Bar. look Blood Bitters, and when I had teliten one bottle I was able to move about tho house and go for $A$ drive occesionally. I have now, siter taking four bottles, almost completely ro corered, and feel that I am a Dotter man than I have been for trenty years yast. I attribate this condition of thinga to your medionne, and it gives me pleasure to say so.

Youra traly
W. A. EDGERS.
(2000 BITTERS, A
PUREXY VEGETABEFEX TRAGT, CORES ALL DIEEASES
GKOOD, LIFKE AND MIDNEXS.
T. Milburn \& Co.,

PRORERETOER,
MTOIROMTIDO.

## Abundant prools of the merit

 of this medicizo from fartion Who havo been oured sent to s.oy applicant.Esoh Eotllo Containg 100 poses.

## a SIMULARIY PREVALENT DIADAEs

domidion rn theis cor tixax

Stoalthily, liko a midnight robbar, it approachas us unobserved, nutil, ready to plunder our treasury. Thio: attaoled have often wanderirg pa', about the ohest and sides, aob back, weary limbn. The mouth a bad tasto in tho morning. a stic. thuck ellumo gatharing about tho toos They foel dull and sluopy during th day. Tho appotita is poor Thoror is a feeling like a heary load on the stomsoh, though sometimes a faint, sinking "all gone" feoling at the pit of the stomsah, whioh food does not rali e. The hands and feet are ociz and olaminy, and the oyes hollom anu sunken, with dark ciroles under thom. Often a dimness of sight or blurr, as if spacks wero floating before the eye; of thoy may become red, weak and watery. Altor a time a cough sets in, dry at first, bat in a fow moeks or months it is attended with a greonishooloured expecioration. Sleep does not roirosh, and the patient feels tired sll the Fhile; soon becoming ucrons, irritable, and gloomy, fearing imagin. ary orils. Thore is a dizzinegis or a Whirling sengation in the head when rising suddenly. The bowols bocome costive, the skin dry, and at times hot, thiok and stagnant, frequently a spit ting up of food, somatimes with sour taste, sometimes bitter and sometimes sweet. This is often attendod by pal. pitation or fintering of the heart, and general prostration and weariness. zrany or all of thoso diseases aye in tarn present.
It is believed that nearly one-third of the people of this country are afflictod with this disease, and havo some of the above sigus of its presence in some of its varied forms. Ircarned andskilled medical man hapo mistaken the nalure of this disease. Some have treated it for liver complaint, some for dyepepsis, others for kidnoy disease, and some for consamption, but under whatever name treated, nono of the various modes of treatment have bean at all times succoasaful.
It hass been found, demonstrated and yroved, horrover, that the Gzeat Systom Renovating, Blood Parilying Tonic, known as Burdock Blood Bitters, will, is tasien in time, effect a porfoot oure. It opens the culverta and slaice-ways of the system to carys off all imparities, and opens the channals of hoalth to supply pare and nourioh. ing blood, regulating overy organ to hoalthy action, whilo it gives strengt and vigor to the enfeebled frame.
T. Mflibury \& Co

Gemticurs,-Toar Burdock Bload Bitters ont sells all other Blood Bitter or blood Purinars that i keep for salo, and I xocp nearly all tho blood modiStetes In Cunaca ana ha Unite: Statcs. I cliso hoar my castomers tay that it hak elleoted a care riken oiker
 fill, J. gist, Skedbarae
"Eardook Blood Bittars sell फंell and secm to give more general satio faction than any Blood Furifer wo kesp.' Thus writes S. Perria, draggish, Iindssy.
Thavo graat plearbure ivs stating that I have gaver seid \& remedy that has "Ran suct entro katikection ae your "Bandook Blood Bittere." I sell raore of than my or ber dourer pregaration, ard hare as get nos heard of a singlo instance Whens the result lass not beta entircly extisfactory.

I remain, jours traly
J. Jiegarmin. hoton, Ont
N.B.-The abore ars brict exmplez of handrede of testimonisls Irom drus. eists ans dexierx nul over tho land They zpink rill nuited ofinion?


Vol.III. No. 5.
Toronto, May, 1884.
$\$ 1$ por annum, in advance.

## RURAL NOTES.

Anoteer light crop of peaches is in prospect in the Niagara district. The intense cold -of the past winter, together with a local icestorm, appear to have destroyed the fruit buds.

THE coddling moth is of an ash-colour, with a copper-coloured spot on the end of each wing, and flies with body perpendicular. It is the worst enemy of the apple, and ought to be killed at sight.

Every farmer should be able to do his own grafting. All that is required is, to cut the cleft smoothly and to bind the graft in the safe-wood with grafting wax so as to exclude the air ; nature will do the rest.

A hignt harrowing, followed by heavy rolling, is one of the best treatments that can be given to fall wheat at this time of the year; and it is all the more desirable in a season that plants are thin on the ground.
THE correspondent of an exchange tells farmers how to use dynamite for blowing up stumps and trees. It seems to us, however, that the farmer's best use of so dangerous an explosive is to have nothing to do with it.
Sour milk, whey and buttermilk are good liquids for mixing with the soft food of poultry; but, then, almost everything that has a material existence is acceptable food for poultry. The hog himself is not wore omnivorous and hence the absurdity of putting fowls on any particular diet.

The tendency of early pruning is to throw - the tree into producing fruit rather than wood, but it is better to delay the lopping off of large branches until the flow of sap slackens, which is usually late in May. Fall pruning promotes the growth of wood, while spring pruning favours fruit-bearing.

IT is very poor economy to pay. a farm haud good wages and give him poor tools or a poor team to work with. Another of the mistakes of farmers is to keep as help men guilty of impure conversation, especially if they assosiate with the family. Such men should be discharged at once, no matter how efficient they may be.

When one reflects on how much of sustenance for the farmer and his family is raised Reports of the fall wheat are generally the "cronk" of the wild goose.
in the garden, one cannot but wonder that so little attention is paid to garden culture. Instead of giving to it a superficial attention at odd moments, or after all the field crops have been planted, the garden should be every farmor's first and principal care.

Cat-poles are often difficult to drain, and the stagnant water lying in them during the summer is a fruitful source of fevers. A good way to neutralize the malaria of such places is to plant them with willows, or any other variety of tree that thrives in wet ground, as they act like pumps or drains by exhaling moisture through their leaves. The Australian eucalyptus is now largely used for this purpose.

The advocates of Graham bread have not all the reason, or the argument, or the science of the question on their side; for one of the best chemists in Germany, Dr. Max Reubner, states that, independent of its better taste, the white bread is more economical than the black, because a larger portion of it is digested. that is to say, a smaller quantity of the white bread is needed against a larger quantity of black to satisfy the demands of the body.

To such an extent is the manufacture of bogus butter carried on in the cities of New York and Brooklyn that many farmers in New York State are said to have gone out of the manufacture of the honest article. A committee of the State Senate has bean enquiring into the matter, and they estimate that the yearly consumption of bogus butter is $40,000,000$ pounds, which is about half the quantity consumed in the entire State. Une of the worst results of this industry is that it is destroying the export demand.

IT is doubtful if any other part of the continent is so favourable for dairy farming as our own Province. In many of the American States the making season for butter and cheese is longer, that is to say, it opens earlier and closes later; but then drouth frequently prevails for a considerable portion of the season, and the failure of pastures results in a corresponding failure of the milk supply. In Ontario, on the other hand, dried-up pastures are the exception, as, owing to our peninsular position the rainfall is more evenly distributed.
favourable. It has come out of winter quarters in a very healthy state, although somewhat thin on the ground, and April weather"does not appear to have done the plant any serious harm. There was some hard frost in the first half of the month, but the cloudy days reduced the danger from this source to a minimum. It is only when frosty night are followed by bright, sunshiny days that much harm is done. Still it is yet too early to predict anything with certainty of the wheat crop of the year.

About one-third of the fall wheat of the United States is grown in Ohio, Indiana and Illinois, and in these three States, as well as in Ontario, the crop was a failure last year. The average yield per acre was slightly in favour of the Province; but in the previous year, when the crop was a bountiful one there as well as here, the Province led by nearly ten bushels per acre. The averages of spring wheat, barley and oats were higher in the Province for both years also, and we have no doubt whatever that for a series of years we will be found to stand first. These are facts that our farmers should ponder over, and that should make them more appreciative of the advantages they possess.
IT rarely happens that we are visited with cyclones in Ontario, but in the Western States thes are of almost daily occurrence during the summer season-sweeping over localities of limited area and destroying everything in their way. It is difficult to account for the frequency of the cyclone out west, but the cooling areas of the Rocky Mountains and the heated areas of the desert region have probably something to do with it. A wind, as every student of natural philosophy knows, is caused by the air of a warm region rising and the cold air of some more or less distant region rushing in to supply its place; and if the air noves from two or three directions to a common centre at the same time a cyclone is often created. In our North-West territories cyclones are rarely heard of, and it is worthy of note in connection with the theory suggested above that the great American desert does not extend into Canadian teritory. This is one more reason why the Ontario farmer should remain where he is, or, if bound to migrate, that he should prefer a prairie region where cyclones are unknown to one where they are as common as

## FARM AMD FIEID.

## hints about turnip raising.

There is no late or second crop that can be more easily grown, or more quickly brought to maturity, than one of the strap-leaved varieties of turnips. And on almost any place where vegetables are grown can be found at this season a piece of land where this crop can be conveniently grown. The turnip crop is often considered a coarse and common one, but we learn to appreciate it when it cannot readily be obtained, as was shown by the high rates paid for the almost worthless foreign turnips which were imported the past winter.

If it is intended to raise turnips largely, and do the work of cultivating by horsepower, the sowing should always be done with that end in view, as in a field where such a crop is grown there can be no greater mistake thian that of having the rows too close together, thus preventing horse cultivation.

In the cultivation of all root crops the soil should be fine, smooth and rich, the latter being highly essential to the production of fine roots. The land should also be as free from weeds and weed-seeds as possible. A noted onion-grower said, a few years since, that be who plants onions on weedy ground will repent it all summer on his hands and knees; and the same is true in a measure of turnip culture. Turnip-growers who besire the best results prefer to have the soil for this crop prepared a few weeks or months ahead, in order to have it thoroughly settled. they are sometimes grown as a second crop to follow peas without ploughing the soil afresh. If the soil be dry, a good degree of firmness can be given to it by rolling it; but wet land should never be rolled.

If the manure be fine and can be applied liberally, it may be spread broad-cast and very lightly ploughed in, or harrowed in with a heavy harrow; or, if preferred, furrows can be opened at the proper distances, and the manure spread therein and covered. This plan is more economical of the manure. If commercial fertilizers are applied it is best to put them as close to the seed as they can be placed without doing injury, but they should be somewhat incorporated with the soil in order to have them in the best shape for plant-food. Good wood-ashes are a most excellent fertilizer for turnips, and this is one reason why they do so well on neyr land that has been burnt over. Potash, superphosphate of lime, and Peruvian guano are also excelleut fertilizers.

When land is abundant or rough, the rows may be three feet apart; but horse cultivation can be done when the rows are as close as two feet. A mistake is sometimes made in "ridging" up the rows of turnips, a practice which, on dry soils, is often detrimental to their growth. The rows should be as nearly straight as possible, to allow the cultivator to run evenly and close to the rows, thereby saving time in hoeing. Plenty of seed should be used, as it insures evenness of plants in the rows, which is not so likely to be obtained when it is sown sparingly. Turnip-seed can be sown very satisfectorily with the seed-drill, as its round shape causes it to distribute freely. As soen 23 the plents
appear, attention should be given to the weeds. Nowhere in horticultural oparations is "a stitch in time saves nine" so true. If weeds are attended to in season, it not only saves much time and labour in removing them, but the young plants are left undisturbed. To insure a good crop, the sòil should be kept mellow and free from weeds throughout the season.
Thinning should be done as soon as the plants become strong enough to endura the operation. When the thinning requires considerable labour, it may be done to a great oxtent with a hoe narrow encugh to keep the turnips the proper distance apart by striking out the turnips in bunches, so that those which remain may be thinned by hand. The amount of thinning necessary will depend considerably on the strength of the land, rich soil requiring a greater distance between the roots than poor soil. Should the turnip-fly become troublesome, the plants should be dusted with air-slacked dime or soot; but these do not usually do much danger after the plants attain their second leaves.

## HUW CUNTRACTS ARE MADE.

To make an agreement binding, one party must make an offer, and the other accept it. It takes two to make a bargain. The parties must be of the same mind at the same time. A man asks a dealer what the price of an article is; the dealer answors, giving the price, the buyer says he will take it. There is no contract here unless the dealer agrees to sell it. Wheu a man makes an offer and another accepts it, the second must let the first know that he accepts it. If a man agrees to guarantee that another will pay for what he purchases those who trust the iparty on the faith of the guaranty must notify the person who made it, or he will not be bound.
Again, if one offers to pay :one hundred dollars for a horse, the seller to accept within twenty-four hours, the proposer is not bound unless the other does accept within that time. More than this, one who makes an offer can withdraw it at any time before it is accepted.
The offer must be accepted as it is made. If a seller offers ten barrels of flour at six dollars a barrel, he is not bound to sell five barrels at that rate. When land is offered for sale and the buyer offers to take it if the title proves to be good, the buyer has not mede a contract that will bind the seller.

A contract that is made in sport or as a mere matter of form, is not binding.
If a man makes a promissory note while showing another how well he can write, the note is not binding upon him, unless it has been sold to some person who knew nothing about it and paid forit.

A man who is embarrassed in business gives a bill of sale of his property to a friend, so as to cheat his creditors. No contract exists and the creditors can hold the property. But the person in whose favour the bill of sale is made out can hold the goods against the fraudulent debtor.

Another case of this kind is often seen in newspaper articles. We read that a lady and gentleman go through the marriage ceremony at a public entertainment to amuse their friends, and aftervards find that they are frienda, and aftervands find that they are
really ramried. Thia is not trie. The nore
rifge contract is no more binding than any other contract unless it is made and intended seriously, not in sport.

The contract must be made freely and not under compulsion. If a robber holds a pistol at a traveller's head, and threatens to shoot him unless he gives a note for a sum of money, the note thus obtained is worthless. Again, a landlord takes a boarder's wedding suit from him on the day the latter is to be married, and refuses to give it up until a note is given for board due. The landlord cannot enforce the payment of a note so given.

False statements made by either party will make a contract worthless. If a parson buys land, the seller saying there are twenty-five acres in the plot, the buyer may refuse to accept it if there are in fact only twenty-three acres.

## WHAT LANDS NEED DRAINAGE?

Loose, porous soils, underlaid by sand or gravel, axe drained by nature; but all land that is underlaid by clay, rock or other impervious material'needs draining. What is to be gained by underdraingge? The surface of the water in the soil is lowered. The roots of the cereals and grasses may penetrate as far as the surface of the water, but never into it. It is necessary to draw the water off to such a depth as will give the roots of growing crops plenty of room to reach duwnward for that nourishment that is necessary to their growth. If the water is only one foot from the "rrface, the roots of the plants have only that amount of soil from which to gather nourishment, with the disadvantage of having their feet wet by capillary attraction. Only aquatic plants grow well with their feet in the water. The lowering of the water below the surface prevents a large amount of evaporation and its effect in cooling the soil. The water being removed, air and warmth: are admitted to the soil. Drained lands are for this reason ready for planting at least one week earlier in the spring. The growth of the crops is quickened through the summer by the increased temperature of the soil, which amounts to several degrees, and the injurious effects of early frosts are prevented in the same manner. Crops are, therefore, givenan increased period in which to make theirgrowth of at least two weeks.-Exchange.

## MORTGAGED FARMS

The idea of morigaging a farm has been written up, by eloquent pens, both in prose and poetry, and the lessons usually tend to make a young man think that a mortgage invariably precedes the poorhouse, while this is only occasionally the fact. There have been many cases where industrious young men have bought farms and only paid part of the price, giving a mortgage to secure notes for the remainder; and they have gone on economizing, paying off the debt as fast as possible, and finally in a few years had their farms clear of debt.
Tha kind of mortrame which rains the farmer is to pay debts incurred for some luxury, or to raise money to buy something for the family to keep up appearances with their more wealthy neighbours.
If a young man goes on a farm-a gond
his means, expond nothing for unuecessary luxuries until the farm is free, but make the farm more and more valuable year by year, there is no denger of the mortgage's landing him in the poor-house; for if he finds himself unable to meet his payments ho can usually sell a farm which if not run down but is in good condition, for enough to save himself and to repay him for his labour. It may sometimes be the very best thing a young man can do to get in debt for a farm, if he wishes to pursue agriculture ; and if he does thus go in debt, of course he must give mortgage for security. Very few young menget abead any on renting farms; but thousands of men have gone in debt for farms, and worked but little harder than they would be obliged to on a rented farm, and soon owned a home for themselves and families.

## SOIL FOR POTATOES.

The potato, says Peter Henderson, like all other robust-growing vegetable, can be grown with varying success on soils of all kinds and in all conditions of fertility, but the soil best suited to it is a sandy loam. In all heavy soils it is more subject to disease, and the flavour also is much inferior. In breaking up good pasture land, the decaying sod answers sufficiently well for the first year in lieu of manure. Manure is applied either in rows or hills, or broadcast over the hills and ploughed in, the latter in most cases being preferable. If the soil is good, but little manure is required. In highly enriched soil the plants are more liable to disease than whon grown in scil that is naturally good. The best fertilizers are those of a dry or absorbent nature, as plaster, lime, super-phosphate of lime, and bone dust. For wet soils these are particularly beneficial, as they not only promote growth, but prevent disease. Plant as early in spring as the ground can be had in fair working order, in hills or ridges, bbout three feet apart, covering in light, warm soils, about four inches deep; but in cold, wet situatinns, two and ahalf or three inches will be sufficient.

## TREE PLANTING.

The vast benefits of tree planting on the prairies, not only to the country but to the farmer, is gradually being demonstrated, as time brings the trees and groves already planted in years gone by, to perfection, in the most conclusive manner, by a comparison of the selling value of the farms on which trees
chave been planted long enough to be pretty well forward, and others where this method of improving and beautifying the land has been neglected. Cases are not uncommon where farms not more favoured otherwise than their treeless neighbours, bring two and three dollars an acre more to the seller, owing to the existence of a good grove of trees. Young farmers in the newer sections of our country, and, indeed, everywhere for that matter, will find in this fact great encouragement to tree planting. We know of no other way in which the cultivation of a small section of the farm can be made to so enhance the value of the entire property. A little calculation as to the increased wealth of the country, had tree planting been unicersally adogted by the Gracte fifteg or twenty yous ago on one
prairis States, gives truly astonishing results. Add to theso the benefit to the soil which would have accrued from a more extensive use of live stock by our oarly settlers, and the " what might have been " bscomes indeed anddening. It is never too late to mend, however, and wo are mending in these respects.

## the song of ensilage.

Air-" The Song of Stom."

Go, build my barn in exrth's cool broast,
Coment and roof it well,
And fearlossly your grass invest
Within my air-tight cell;
Leval with caro from top to floor,
Each layor solid tread,
Than load rith roady weights all o'or, And though long mionths have gpod, You'll find with joy, in my dark cago,
A fragrant store of encitage.
Three thousand years or more have passed since patriarchs wise of old
Thoir kindly fraits of oarth thus cast
In pits and asparns cold.
And often sinco at man I've rmiled,
Wasting the herbage sweet,
As all anknotingly he toiled
Benoath the solar heat:
Losing in sir rich sap and juice
By Nature sent for creaturo's ube.
Ao I marked the cloud on the mountain side, Bleck with the coming rain,
Burat o'er the hay fields far and wide,
And saturate the plain,
And know that the wator washed amay
Mruch that the sun had left,
I thought of a coming bettor das,
When, with a wisar thrift,
Mon вaw theur error, age on age,
In making hay, not ensilage.
From many a farm I banish caro,
Largely from house and home,
To suoh alike dark skies or fair,
Showar, sun, and gathernng gloom.
My harvest-home, 'neath clond or shine,
Man tresds in caverns cold,
To spread bofore hus eager kine,
Or shoep in shaltarod fold,
Food richer still, 'noath winter's snow,
Than if 'trere browsed 'neath summar's glow.
All dimes are mine where grass will grow,
I fatton bird and beast;
Great dairies know how much the flow
Of milk I make increased;
I treble all the pastures groen,
3iy rich return eroh knows;
I anter a farm like a spoll or a charm, And it blossoms like the rose.
Then who will deny that I truly presage
Now hope for the land that adopts ensilage.
All forage I sweeten, the coarsest of grass, The onttings from sward and from lawn;
Woeds, thistlca, aud nettles, ere seading may pass,
With herbage to my silo drawn;
I store up vetoh, olover, rse-grass, and Lucerae, Indian corn, as it flowers, oats, and rye,
And keep thsm and sweeton tham in my cool urn,
For rage when long months have passed by;
And in my fair volume you can't find a page
That doss not shine out with my name, ensilage.
I come, a good lairy, to homes on the prairio, 'Mridst rolling wo res of grass;
To fiords in Norviay, wish green uplands airy,
Whare Iceland's summar's pass,
A midsummer dream, half wes and hsll dry, To each and to all a new time
I come to proclain, as thes heed not the sts Or ancongenial clime
Its storm or sunshino, its calms or its rage,
Haymaking abandoned for me, ersilage.
I'm the friend of the huabandman, brocier ard drover, The dealer and eater of maat;
The cottagar's covi I keap almars "in clover,"
Rich milty from the pail ewol day's treat.
His mesdor's a vault, with ite foddor secure,
A jar of proserves in the siore ;
His half-acre foeds his one cow, that is suro,
And he laughs at the i-amp at inis door,
With bis lacifer matoh, for he noeds not "The Sun ;" Such gifts are my bringing. siy story is done.
-J. H. Ranlins, in North British Advertiser.
Raise large rrops that leave the farm richer than hey foand it.
I fare never heard a man complain that he had tilled his land too well.

Semites forn smplements. Fusi and rot

## HOUSEEOOLDHETHTS.

Corn starch makes the paste for scrap books.
Lemon juice and glycerine will remove tan and freckles.
Casprion gum placed on shelves or in drawers will effectually drive away mice.

Inon rust may be removed by salt mixed with a little lemon juice. Put in the sun. This may be done twice.

Neuralain and toothache are sometimes speedily relieved by applying to the wrist a quantity of grated horseradish.
The best thing to clean tinware is conmon soda; dampen a cloth, dip in soda, rub the ware briskly, after which wipe dry.
A litille saltpetre or carbonate of soda mixed with the water in which flowers are placed will keep them fresh for two weeks.

Hemorrhage of the lungs or stomach is promptly checked by small doses of salt. The patient should be kept as quiet as possible.

Hoarseness and tickling in the throat are best relieved by a gargle of the white of an egg, beaten to a froth, in half a glass of warm, sweetened water.

To clean nickle on stures, take the dust from hard coal ashes, to be found in the hole under the ash pan. Apply with a wet cloth, polish with a dry one.

To prevent the juice of pies soaking into the under-crust, beat the white of an egg and brush the crust with it. To give a rich brown to the upper crust, brush that with it also.
InSECT bites, and even that of a rattle snake, have proved harmless by stimring enough of common salt into a good egg to make it sufficiently thin for a plaster, to be kept on the bitten part.
A small piece of paper or linen, moistened with the spirits of turpentine, and put into a bureau or wardrobe for a single day, two or three times, is said to be sufficient preservation against moths.
ON rising in the morning always put on the shoes and stockings the first thing. Never walk about in the bare feet, or stand on the oil cloth. Even in summer time this is \& dangerous and unhealthy practice.
In a case of poisoning, one of the best emetics is salt and water, the quantity being two tablespoonfuls to about a pint of tepid water. It acts promptly and has the advantaige of always being near at hund.

Old putty can be removed without injury to the sash or glass by passing a hot soldering iron over it. The heat of the iron softens it readily, and permits $i^{+} \times$removal with a knife or chisel without much trouble.

Enysipelas, a disease coming without premonition and ending fatally in three or four days, is sometimes very promptly cured by applying a poultice of raw cranberries, pounded and placed on the part over night.

As to remedies for stings, ammonis is, of course, the obvious recourse; but almost anything " strong," in a popular sense, will generally suffice to decompose and destroy on organic poison if instantly applied. This is why the juice of an onion answers the purpose. Anything equilly puagent would dose Prelli.-Ltostat.

## HORGES AND CATILE

## FEEDINGEXPERIAIENTSATGUELPH.

On these pages we place before our readers two groups of steois raised on the Experimental Farm. They are six of nine steers upon which Prof. Brown is now making beefing experiments.
Of these stoers the Report says: "The Aberdeen Angus polls cannot be said, all over, to be so typical of their kind by colour, as the Herefords. The illustration shows a greyness in two, which remind me of splendid lessons I got from Mr. McCombie, of Tillyfour, in 1864, when some of his 'grand ones' were of that hue. The other animal of this group is perfectly black all over with the exception of a white spot on the under line. The second impression of these is a beefyness-a semigrossness almost, a sort of dead language that says, 'we know nothing about milk in our
think the black steer will come out best ere Christmas, 1884; he is more reachy and finer fleshed mcantime, but does not indicate the open constitution of the othe:-what may be called the assimilating character of a beefer.
"The Shorthorn grade steers are not supposed to be representative of any particular colour, tiwo are pure white, the other roan, which is oldest by throe months-a 15th of December calf. There is not a model among the three, the heaviest is both best in handling and heaviest in bone; the smallest is the more even all through, and the oldest is the highest standing and more wedgy. In saying "is model" I do not mean that the animals are under average, but that they do not como up to the well-known Shorthorn standard."

## FEEDING CATTLE.

Experienced and observing feeders of cattie have found out that there is twice as muoh
pound; the gain the second year costing nearly double as much per pound as the first. Two of the most thrifty of these gained an average of 650 pounds of the third yoar and the cost of this gain was 12.45 cents per pound. These two steers weighed each 2,250 pounds at the end of the third year, and 3168.30 , or 7.48 cents per pound. This was the average cost for the whole three years, while the first year cost less than helf this per pound of gain, and only about one third the cost of gain during the third year." Prof. Stewart, who compiled the above for the Rural New Yorker, says, "it is casy to see that the best profit is made at fifteen to twenty months old."

## DRAFT HORSE BUSINESS.

If you have not already plenty of good draft stallions in your neighbourhood to breed from next spring, don't wait until the season for breeding is here before you begin to think


Durfam, average birthday, Ist February, 1882, and weiget 1,237 lbs.
family, and the fat grazing of the Hereford or the stall feeding of the Shorthorn is all we want.' The centre animal of the group may be taken as representing his kind; no horn, not even a fast scur to tell of his mother's side ; a strong, prominent poll, with plenty of hair, a sleepy eye and such a broad fine mouth and muzzle as delights the keen judge; a little flabbyness of skin under the jaw, and its perfect development on the bosom, which indicates quality with character; neck, shoulder, and forward depth, as well as the top width forward are first-class, but the loin falls off both in width and strength-not such a great deal but yet not perfect. We should have a deeper flank, but in all other respects this individual is very even-a grand mellowness under a moderate skin, and plenty of bone without coarseness. The general stamp may be inferred from the fact that on the 2sth. September last we were offered $\$ 100$ for this animal, when he weighed 1,020 lbs. at fourteen months; object, to exhibit at United States fairs. Some of our visiting critics
profit in the first year's feeding as in the second and three times as much as in the third. They aim to turn off their cattle when two years old on this account. These facts have been demonstrated by the exhibition at the Chicago Fat Stock Show, under the head of "Cost of Production." When an animal is raised to make beef it should be fed in the manner most liable to make the most rapid growth. This is the only way there can be any profit where land is high. In the great pastural regions where feed costs nothing, the growth may be slower, and full age reached before slaughtering, but this system would impoverish a farmer here, where grain must be depended upon to make up most of the growth. It is winters which make the cost so great, so the ferver winters the better. "In the Fat Stock Show of 1882, nine steers and heifers, averaging 907 pounds' weight at the end of the first year, cost three-fourth cents per pound. Five of these steexr gained an average of 562 pounds each during the next year and the average cost waa 7.62 cants per
about the matter. If you are not able or do not care to invest as much as some first-class horse will cost, mention the fact to some enterprising neighbour, or two or three of them for that matter, and see if you cannot arrango for the purchase of a horse that will pay a good return on the amount invested, and the trouble, and by so doing enhance the value of your horse stock from 50 to 100 per cent. in a few years. It is time now to begin to map out your arrangements for next year's breeding, and tho sooner you begin the better it will be for many and various reasons. You can select with more deliberation, and if one firm can't suit you, you have time to visit another. You will have time to acclimate a horse and become accustomed to his habits and requirements before the rush season begins. The matter of advertising is no small consideration, as farmers who know positively that \& worthy horse is within reach are likely to breed more mares. All the advantages derived from taking hold of such a work would take up more space than we could deroto to it, but the
principal point should not be lost sight of that of inaugurating such work, and of doing it at once.-Stockman.

## CROSSING CATTLE WITH BUFFALO.

In the issue of the Country Gentleman for January 24th, I nolice an inquiry by one of your correspondents as to crossing the buffalo of the plains with our nat:ve cows. I became acquainted with the only instance within my knowledge about three years ago, when on a visit to Manitoba. Learning that such a cross had been tried in the vicinity of Winnipeg, the capital of that Province, I made it my business to visit the farm on which a few buffalo cows and bulls are kept along with common stock. This farm was the property of a wealthy half-breed, since deceased. Mr. McKay, the owner, was at the time ill, and confined to his house, but his foreman directed me to the field in which the cattle were graz-
ing seen the cattle since they came into his possession, I cannot say what "improvement" or "otherwise" may have since taken place. But I am certain of one thing, and that is that if those common or native cows had been crossed with a Shorthorn bull, or a bull of any one of the other improved beef breeds, the results by this time would have been much more shapely as well as more satisfactory from a morey point of view, if not quite so "picturesque."

I intend to pay another visit to Manitoba during the coming season, and intend to have another look at those buffalo crosses. If on inspection I have any reason to change my mind regarding them, I will again communicate with you.
G. G.

## CURE FOR PA WING HORSES.

A correspondent of the New York Tribune writes that paper that the habit of pawing
habit of doing the most parwing, and when he lifts either foot up by pulling on the rope attached to it, and hold it for a short time only. The object of this lesson is to teach the horse that it is when and only when he begins to lift his foot to paw that the control of it is taken from him. When he learns this he will probably stop the practice; but for him to get this idea the foot must be taken and held long enough for him to realize that it is held every time he attempts to paw. In this, as in all teaching and all disciplinary work, the teacher and governor needs a good supply of patience and perseverance.
Ringbone is a quite common defect in horses, and is often needlessly produced. A veterinary authority says of it: "The great majority of ringbones in young horses come from the failure to shorten their toes. To this may be added that ringbone is apt to be formed if colts are allowed to stand on a

ing. My friend who accompanied me, drove with me in a buggy dirctly into the field and into the midst of the herd.
The buffalo cows were grazing free, like the other cows in the pasture, and like them - seemed perfectly tame. Two bulls, to all appearance full blood buffalos, formed part of the group. The bulls wore rings in their black noses like tame bulls, and were chained from their nose-rings to their forelegs, but they did not seem to be disturbed by visitors. Scattered about were several young things, which were pointed out as crosses from some of the native cows, and more hideous-looking creatures I think I never saw. They were certainly no improvement on the native cows, - and were equally far from being an improve-ment on the buffalo. The few young "fullbred " buffalos were handsome in comparison. After Mr. McKay's death the buffalos and half-breeds became the property of the Governor of the Provincial Penitentiary in Manjtoba, who, I have been informed, is carrying
on the crossinge trom the butale; but pot hav-
can be overcome in most cases by lifting the foot, and holding it up for a while every time the horse begins to paw. To give the horse the first lesson, he says: " Put on an old harness, buckle a strap around each of the forward fetlocks, attach a small rope five or six feet long to each strap, pass the ropes through rings or loops on the top of the saddle, take the horse to a soft smooth spot so thathe will not be liable to get hurt, girt the saddle tight so that it will not turn, take up one forward foot and hold it up for some ten or fifteen minutes by making the rope fast at the ring on the saddle. The object of this lesson is to tesch the horse that standing on three legs is tiresome and disagreeable work; and also to teach him that his foot is held by a superior power, and that he cannot put it down without the consent of that power. For him to get these idias he needs to stand long enough to before he can realize that it is impossible for him to tree it then swine. As a general rule a 2000 pound pis is put the borse in the place whera be is in the betor in quanity and rare profito" "e than a
plank floor, or anywhere else where the footing is hard, during the first eighteen months of their age. Whether in stable or yard during this period, let them have earth for standing or walking, free from stone or gravel."

There is a real basis for the high prices of pedigree stock, whether sheep, cows, or horses. It may seem absurd to pay $\$ 200$ for a ram that weighs little more than 100 pounds; but if the progeny of this ram will shear eight to ten pounds of wool while common sheep average five or six pounds, with the same cost of keeping, the use of the pedigree sheep as a breeder will pay heary interest on much more than his increased price. It is not every farmer who can breed fancy stock with profit, but there is none who cannot improve his herds by the use of the best male parentage.
The best beef is young beef, reaching its greatest point of superiority at from two to three years. The same is true of sheep and

## SHEEP AND SWINEE.

## A OHAPTER ON SHEEP.

Sheep, in common with our other domestic animals, have a very ancient history, indsed about equal to mans.
Sacred writ makes prominent mention of them, and plainly shows the wealch, comfort, and importance, flowing from possession of large flocks.

Able was a shepherd, and it was while watering sheep that Jacok and Moses met their future wives.

The seamless coat of our Saviour, was woven from its wool, and its skin formed the "leathern girdle" of John the baptist, while from trumpets of the sheep horns, was blown the four octaves (like the nightingales notes) to the sound of which Jericho fell.

In the first home of the sheep, there are two breeds, one like our common English sheep, the other taller, larger horned, and with a large nose. The rams have spiral horas, and the tails of this breed are extremely large and a mass of fat. The tail sometimes weighs one fifth of the whole weight, and is fastened to a small, two-wheeled cart to save it from injury. This the animal draws along, and as by doing this, they were working, the Jews folded them all Sabbath day, to prevent its desecration. Astrachan fur is the fleece of the unborn lambs of this breed. It is a strange fact that, where conditions are favourable, sheep-keeping, once entered upon, becomes a permanent industry. It is so to day, after a lapse of four thousand years, in the land of their origin, and in Spain, England, and America.

Before Christ's birth, Italy was noted for her fine wools, and expended far mors pains on them, than is done to day. The sheep were clothed and housed, had their skins oiled and softened with wine, and their fleeces often washed and combed, and to-day their descendents are noted for their fine wool.

The progress of civilization, and demand for woollen garments, caused the fleece to take first place, and fixed the types of different varieties.
But in recent days, mutton has taken the first place (though in thinly settled districts wool still bears its old relation) and the markets have decided the breed to be kept, and in fact, have caused creation of new breeds of special fitness.
The sheep that now roam over Palestine, part of Europe, and a large portion of Asia, is horned, has lung hanging ears, a large muzzle, a lump of fat on the rump and is covered with a fleece of hair and wool.
Their chief uso is to supply milk which is very rich and eaten sour, or curded, as in parts of Scotland. As we have them, sheep are an artificial product, in frame, fleece, and meat. The same country produces very different types, for in Spain are found the Chunah, a large, tall, heavy breed, with coarse, long straight wool. It is the original home also of the Merino that yields the finest wool grown, and there are also sound sheep, ..ithout any wool or hair, being quite smooth skinned.

As man spread uver the world, he carried sheop with him, and the earliest record in England and America, show their presence
there and hire. There were ten urigiual races or breeds in [Europe; but early in this contury there weretwenty-five breeds or varicties in Great Britain alone, chiefly named after counties where they throve kest. Thoy were the Heath, Linton or Forest, Yorkshire, Exmoor Dartmoor, Norfolk, Wiltshire, Dorset Teeswater, Devonshire Nott, Bampton, Ryeland, Romney Marsh, Cannock Heath, Cheviot, Herdwick, Dun-faced, Shetland, Manks, Leicester, Cotswold, Lincoln, Southdown, Shrop-shire-down, Oxford-down, Hampshire-down. Oif these, the first seven varieties were horned, but many in the list have either been merged into other breeds, or so improved as to be unknown. The polled were classed as long woolled, and short woolled, but now wo class them as fine (short wools, middle wools, and long wools. We have received all our breeds of sheep from England, except the Merino, which was brought into South America, at its conquest by the Spanish. Merinos are known as Spanish, French, German, Silesian, and American. America seems so favourable to sheep culture, that by importing the best blood and using care and skill we now raise some of the best mutton and wool sheep in the world.
Even far away Australia pays us high prices for breeding sheep, and says they are the best.
From the early Spanish stock, are descended the majority of the large flocks of Texas, Arizona, T-Jxico, New Mexico, parts of California, aıd Colorado. They remain unchanged in character, are hardy and wiry, weigh about forty pounds, yield a fleece about two pounds, and are worth about $\$ 1.50$ each.
A good class of English sheep was imported into Virginia in 1609, and at intervals after to other places, and from them has sprung the common sheep of this country.

In the North-West of Canada, we have all the conditions for success, that have always been thought necessary. These are extensive pastures of rich grass, rich, dry soil, and dry air, with a temperate climate.

We have also the priceless advantage of a winter season totally without rain or sleet storms, that prove so severe a scourge to sheep, in other sections.
Canada is now noted for her fine sheep, and exports them $n$ large numbers tc Great Britain, and the United States.

The demand for good mutton and choice wools, is always ahead of supply, and steadily increasing, and renders sheep the best paying stock we can keep. Assume that our prairies in the wild state, will feed three sheep per acre, and double that number aiter seeding to cultivated grasses, does it not open a vast prospect for the very near future. When coarse, wild grasses, are close pastured, they give way to fincr varieties, and these in turn, being cropped still finer by the sheep's natural selection, give way to a heavy mat of fine, sweet grasses and white clover. Pasture, alone, affects the fleece, as we find certain lands adapted to longwools, while others suit shortwools best.
The improvement of sheep means the edvance of agriculture, for to feed these beary, quick maturing, improved breeds of to-day, requires large crops of cheap rootg, and green crops. To raise these crops, the best tillage,
manuring, and cultivation are a necessity.
We will now speak of those breeds most familiar to us in Canada, and especially in this half of $i t$.

There a few Merinos, Linculns, Black-faced Scotch, Hampshire-down, and Oxford-downs, but the most genoral and best know, are Leicester, Cotswold, Southdown, Shropshiredown. The first two are longwools, the last two are medium wools, and we will proceed to discuss them in detail, in future articles.-Nor'- West Farmer:

## A CHAPTER ON SWINE.

This is one of the four principal domestic animals, fills an important, though secondary place.
It is one of the family of Pachydorms, with ${ }^{\text {4 }}$ their common habit of wallowing in mud, which cools the skin, prevents it burning, and protects from flies (to whose attacks, though thick skinned, they are very sensitive).
We know little of its early history, owing to the many varieties found nearly everywhere.
Up to this century it occupied a despised place, and no attempts were made to improve it.

The Bible speaks of tame and wild varieties, and the wild Boar of Palestine now is a dangerous animal.
He is swifter than a common horse, very active, and uses his tusks with fearful effect.
It is sometimes, nearly as large as a donkey, but is usually smaller than our tame breeds.-
Its flesh is much superior to the common, though cheap in price, as the religion of Jews, Mahometans forbids them its use, and the bulk of their Christian fellows, abstain from its use also, in sympathy with these scruples.
It has large tusks, strong, long sncut, long head, small ears, erect and pointed, and is always black, when full grown.

It matures in four or five years, and lives twenty or thirty, the sow has a yearly litter or five or six, which she suckles three or four months, and keeps with her for two or three years, until they are well grown.
The tame variety is playful, quick, and small, feeds on roots, grass, acorns and locusttree (or carob) pods-(the husks of Scripture.)

They are owned and herded by Jews of lax religious principle, and by Christians who are not bound by this same law.
It was one of the animals prohibited by Moses, as unclean, though sume of the others (as the coney and hare) are eaten by thoses who would sooner die than eat pork.
It cannot be said that pork was forbidden, because the hot climate, and frequency of human skin disease, rendered it dangerous to man, for pork is caten in the East, for long periods, without harm.
Of the hog family, there are two chief divisions, one from the common wild stock, still found in Central and Northern Europe; the other, whose wild form is unknown, but of which the kest tame types, are from Chine and Siam.
China has several varieties, white, black and mixed, all medium or small size, fattening very easily, on little food, fine boned, gentle, prclific, good nuxses, and with the otiter points of good pigs.

England used these small, highly refined Chinese boars on her native, large, coarso, vigorous sows, and selecting the most suitable of the progeny, has, by constant care and skill, given us all the best pigs of the time.
Other nations have made little progress in this line, for, on the continent, you still find numbers of nearly true copies of the wild hog.
We owe the finest breeds of domestic animals, in the world, to England, but she has made far more fmprovements in the pig, than any other farm stock.
Pig history is yet young, and that of the improved breeds lies within this century.
In Western Ireland, yet lives the "Grey Hound" breed, long-legyed, coarse eared, dew-lapped, savage, and good hurdle racers.
We use the term pig in this article (instead of log , as some call it) because the best writers use the former term, and because it is a "pig" until mature, (at one, two, or more years), when it becomes a "hog," just as a boy is termed a "boy" until "manhood" is reached.
We chiefly compel the pig to pass through all stages, from birth to pork-barrel before maturity is recected, and therefore know it as a pig.

About sixty years ago, there were over twenty varieties, in Great Britain as follows:

Warwick, Welsh, Gloucester, Leicester, Swing Tailed, Oxford, Rudgwick, Hereford, Northampton, Norfolk, Suffolk, Hebrides, Scottish, Irish (or Highland), Devon, Dorset, Cheshire, Nottingham, Essex, Tamworth, Woburn, Shropshire, Hampshire, Yorkshire, Lincoln, Berkshire and Sussex.
Of which the last fourteen were either black or mixed black and white, or black and red.
Of them, now remain:
Yorkshire, Hebrides, Irisb, Shropshire,Suffolk, Leicester, Welsh, Hampshire, Sussex, Berks, Essex, Dorsets, Notingham, Devons and Tamworth.
Of these, the last eight are black, or mixed colour.

Thus, several have dropped out, and others been much changed.
The Yorkshire are now solid white, and have been divided into three classes, Large, Medium, and Small.
The Sussex are now solid black, and the Irish is known now as a white pig.
The Berks have their colour strictly defined, and the breed is now classed as Medium, and Small.
The Suffolks are now both white, and black, and the Cheshires are unknown in England, though bred in America, under that name.
To these breeds remaining, have been added, (by crossing, or improving the old stock) the Small Cumberland, Improved Yorkshire, Improved Oxford, Improved Essex, Improved Berks, Improved White Suffold, Middlesex, 3anchester and York-Cumberland.

It is claimed that the latter two are alike, and that the York-Cumberland is the parent stock of the three breeds preceding $i t$, in the list.
The Essex, Berks, and Improved Oxtord, are black pigs.

Among the fancy breeds added, are the Coleshill, Bushay, Prince Alberts (or Windsors, or Suffolk), Buckingham.
The lasi, some say, being identical with Pxince Albert.

All of them are of yuite recent origin, and while in process of making, were exhibited under different names, at separate times and places.
Pigs are classed as Black, or White, or Large, Medium, and Small Breeds.
A breel, is a collection of animals which have certain fixed characteristics, different from those of any other gruup, and which they are able to re-produce with surity, when bred together.
Many of the English breeds have been brought into Canada and the United States, and direct Chinese blood also used, but fow have been lrept pure, except those of professional breeders.
The first oxciting importation was of Berks, in 1832, when $\$ 1,000$ was paid for a boar, and $\$ 250$ for a pair of young pigs.
Then came, at different times, Suffolk, Essez, Yorks, and from all these spring our present common stock.
We may suppose the reasons why more breeds are not kept pure by the average farmer are that cross breeds are more profitable for feeding, and grade boars larger and handsomer to their age.
This is also a reason why exhibition societies should strictly classify pedigreed and non-pedigreed pigs, that the two may not compete with one anothor.
By using these grade boars the pure blood is soon swallowed up. America has not produced any true breed though these are claimed to be: Chester County, White Cheshire, Poland China. But they are all of recent make up, and their characters not yet fixed. The difference between them and a pure breed is, that results from the latter are certain, while from the former they are quite uncertain (for the present).
The Chester originated in Pennsylvania; the Cheshire in Jefferson county, New York State, by which name they are also called, and the Poland China (or Magie) are from Butler county, Ohio, U. S. A.
Litters of impure breed will often contain pigs with wavy hair, others straight, some will have small, erect ears, and others lopped, large, and thick. Some will have blue spots on the skin, and black spots on the hair, while others may have large noses, slab sides, long legs, or be uneasy feeders, restless, an 1 fence jumpers.
Now, the thoroughbred male and female of any long established breed when bred together, uever produce offspring varying from their parents or one anotiner. Pure blood never yields innpure, like produces like, and blood will tell.
Please show me a pure Hereford without the white blaze: a pure Clyd, with slim, long leg, or black; a pure Cotswold, with a bald head, or a pure Berk, half white.
Black pigs ure great favourites with our United States neighbours, who raise over forty millions of pigs, three-fifths of which are in the corn (or Mississippi valley) States.
Seventeen years ago, the prevailing colour was white, but now over ninety per cent. are black, or spotted:
Pigs are valunble in three ways; to convert unsaleable stuff into marketable values, to consume material, that. but for them, would he wasted; and to make manure.-Nor'-West Former.

## EINTS AND HELAPS.

If the sheep have not been tagged, they will soon need to be.

Watch the cows in calf, they may require milking befors calving.

If potatues cut fur seed are then dusted with slacked lime ut aslees, they will nut hurt for $\Omega$ week or twu.

Have you seen the improved method of marking live stock, with metallic ear tags, safe, sure, neat, and cheap.

If your young pigs "scour" give them fresh skimmed milk thickened with wheat flour. Keep warm and quiet.

Are your plans for the season's work so laid and thought over that you see from seed-time to harvest withouta break, except unavoidable things.
Look well to the mares in foal, and give them nourishing food and light work. The few weeks before and afier a colt's birth are the important ones.
A trained collie dog is as good as a man for certain work around a farm, driving stock out or in, or running messages or taking small lunches to distanc fields.
IT takes about five buskels of wheat to make 200 pounds of flour, by the stone process; and from four and a-half to five by rollers, at an average cost of making of 50 cents.
In setting hens give a small one nine eggs, and a large one twelve or fourteen. Malse the nest right on the ground, or (if in a raised box) put three or four inches of earth in the bottom.
If you have a good-sized pond of water near you, that never freezes solid or dries up, would it not be a good plan to stock it with Europear carp-one of the best food fishes; and which will thrive in any stream or pond.
Have you a chance to keep bees, and is there anyone in your househould who would take charge of them, and secure the purest sweet there is? If so (if not already posted) let them send for a bee-book or two, and study the subject.
Did you make a list the first of the year of all you own and its value?-and if not do jou intend doing it before seed-time? Such an inventory is of great assistance at many times, and is the irst step in keeping accurate accounts; being quite as necessary to us as to the merchant.
Are all your implements repaired and ready for the spring rush-the "trip" fixed in the hay-rake, the plough coulters and points sharpened or laid, the harrow bars bolted where they split, the seeder bearings improved, the seed grain closely ${ }_{2}$ cleaned, and last, but still very necessary, is a summer's supply of fuel cut and placed handy to the stoves?
Good work may be done by farmers in the first days of spring by transplanting handsome young maples, beeches, basswoods, etc., from their woods to suitable spats in their clearings-in the neighbourhood of the houed or barn, along the lane, the line fences or the street. A farm judiciously planted with shade trees is not unly more attractive than one that is not, but it is worth zaore for grazing and grain-growing purposes and is invariably more saleable.

## GARDEN AND ORCEARD.

## STALIT OF TUMATUES.

The training of tomato stems erect and single, each to a well-set eight-fout rod, combines neatness and econumy. It secures more fruit, of larger size, finer form and richer fiavour, while greatly enhancing the gardenesque tidiness and showinuss of the plot devoted to these plants, without adding anything to the labour of their culture beyond the procuring of the stakes. But there is one drawback. The fruit ripens more slowly, because there is no check to the onward growth of the stem, such as occurs when the unsupported sten is bended or twisted by storms or by the weight of fruit. In the North, where the season closes early, this tendency to set more fruit than can ripen can be easily checked by pinching off late blossoms, and the ripening of the set fruit can be hastened by cither loosening part of the roots or_ by piercing the stem below the fruit or constricting it with a ligature.

The greater sweetness and finer flavour of both tomatoes and grapes when the fruit is screened from the full glare of the sun either by the thin payer of a bay, or the natural defence of a leaf, should be generally known so rrell as to prevent the barbarous exposure of the fruit to the hot sunshine as is practised by so many in the false belief that it will improve the fruit by hastening its maturity. In this region many of the firit-set tomatoes were affected with dry-rot, learing a deep black scar nearly always upon the apex, which is the tenderect, thimnest part, and the first to show ripeness. But we had frequent rains after August 20 , and the tomato plants made free growth, healthy foliage and alundant fair fruit from that onward.-Shclah.

## THE FARMEIS SMALL FRUIT PATCH.

Ona subject interesting to every agriculturist, the Fuimers Reviev: has the folluwing:-
"Our smell fruits. including strawberrics, raquberrics, blackberries, currants, gooselerries, and yrapes, are more casily raised and more reliable than many of the larger fruits. There is seldom a year when they fail ta sive a fair crop of fruit Most of them lear frecly in one yoar from planting. and the cthers in two or three at'farthect, and there is not that long waiting between ylanting and fruit which has to le endured with all tree fruits Aside from tempting the pralate they ane all valuath. as form articles of dint with the farther value that the pure fruit acids are just the medicine which the system needs to kerp the digestive eonoms in the highest stagre of efficiency and incure cijormus health. The natural craving for fruit which all ex-perieno- is a wise provisirn of nature for surplying the syatem with just what it needs. It is a naturad appetite, not an artificial or acquired one as in case of aleribrl, torbacco, anui variols other things in commonuse. In view of tince facts, which all will admit, it follows that the farmer who haz aliundant room in which tes stow them should grow all of the sroall fraits in such abundance as to kecp the table supplied deily with the fresh fruit in its season, and with cannod, preserved, or dried, during the remainder of the fear. Kany
have been deterred from making liberal plantings from the idea that these must be grown in the garden, involving an amount of care and labour which, in the hurry and pressure of farm work, they cannot bestow, and so the years go on with only a meagre and wholly inadequate supply of these fruits for fannily use. But they all are equally well adapted to field as to garden culture, and when so treated require little more labour for their care after once planting then for the same ground in other cultivated crops. The ground does not need to be made immoderately rich. Any well-drained land rich enough to grow sixty bushels of corn to the acre, if kept up to that standard, is good enough. A half acre devoted to this purpuse is the least amount to which the farmer should limit the fruit patch. A half-acre plot, cight by ten rods, is a convenient slape. If the plot butts up to a fence, space should be left for turning, for the cultivation can be done with a horse as well as that in the curn-field. Let us see how much of each of the kinds enumerated this would give us, and the amount of stock required for planting. I would make all the rows eight feet apart, except the strawberries, giving ample space for development, for air and sunshine and for the roots to feed in the soil. This will give three rows of grapes, two each of blackberries, Black Caps, red raspberries, gooseberries, and currants, and five of strawberries, planted six feet apart, all ten rods, or 165 feet long. The amount of stock of each kind required will be as follows:-


The stramberries will be in full bearing the next year after planting. The blackberries, Black Caps, and red raspberries will give a partial crop the second season, and the balance come fairly to bearing the third year All of them except the strawberries, which need frequent renewal, if given any reasonalle care will bear for jears, and the whole together would furnish such a supply of fruit that it can lof upon the table in some form every day of the year."

## HOT-BEDS.

Gather and keep separate all the horse manure for some time previous, giving it a turn now and again to keep it from overheating, secure a nice dry sheltered situation facing the south. Dig out a pit a foot decp and two fect wider every way than the wrodenframe in which you intend sowing your sceds; fill up this with the manure till it stand three fect high, he sure and shake the manure and if tou rank mix some older stufi along with it, don'i forget to give it a tramp as you proced; If you have storm sashes at hand you have only to make your frame to suit them, sllowing about a foot of $a$ fall to run off rain. If you have not storm sashes order your glass so that it will do for both purposes Afer the heat has gone down a little your frame will be ready for the seed. 3 3ast people sow in soil placed directly on the bed, I prefer sowing in shallow boxes. If you
sow them on the bed the unequal heat of themanure throws the soil of the level, what follows is that the half of the seed never sees water; and such plants as celery, cauliflowers, etc., are sure to disappoint the grower even though they look guite healthy when planted. I have always been successful by many well drained boxes four inches deep, eighteen inches wide and two feet long. If the boxes get off the level they can easily be tilted right again don't forget to put about an inch and a-half of rotten manure in the bottom of the boxes.

## TRANSPLANTINL STRAWBERRIES.

As regards transplanting the strawberry, possibly sjme readers may be ignorant of one portion of the process, which to every one making a plantation in a dry time, is well worth knowing. In preparing the plant, do not pull off the runners, but leave, say, six inches of them attached to cach side of the plant. Bend these ends of runners down and bury them with the roots. Plants thus provided with these "umbilical cords" on which to draw for nourishment, will survive and flourish in adverse conditions under which plants denuded of their runners will almost inevitably perish. The practice of this precaution in transplanting is equivalent to al most complete insurance of success, in spite of the weather.-Country Gentlemaia.

Here's our grafting wax recipe. You won't find a better one: To four pounds resin and one of beeswax add one pint of linseed oil ; put in an iron pot, heat slowly and mix well. Pour out into cold water and pull by hand until it assumes a light colour, work into sticks and put into a cool place until wanted. In using, oil the hands, work the wax until soft and press it tightly around the graft and over the cracks. If the day be warm it is sometimes better to occasionally moisten the hands with cold water.
The following points favour the setting of small trees: (1) Small trees have larger roots in proportion, (2) they cost less, (3) expressage or freight is less-expressing small trees is usually cheaper than freighting large oues, and then so much more speedy, (4) less labour handling, digging holes, ctc., ( 5 ; less exposed to high winds which loosen roots, and bill many transplanted trees, (6) planters can form heads and train them up to their own liking, (7) with good care, in say five years, they will overtake the common, larger sized trees. Without good care, better not plant any size. (Above is the advice given in F. K. Phoenix \& Sons' fruit catalogue). True.
Is starting an orchard get trees not over three years old and plant them in nursery rows where they can be cultivated and cared for. Do this one or two jcars before wanted for the orchard ground. The broken roots will be healed, and new fibres formed that can all be taken up with the tree when moved again. When the time for planting comes, the trees are on hand; a ferr can be taken at a time and not exposed to wind and sun or bed "healing in." Imperfect trees are now casily detected without reaiting till they have failed and made a vacancy in the orchard. Thus saith R. Johnston, of Shortsville, N. X., in "Froit Notes." It seems to us a sen ible method.

## A WOMAN＇S WOES

A．Taic of Surfering with a sequal ot Rappinery－Some Domentic

Kxperlences．
The following letter to the Kansas City Times describing the striking，almost dra－ matic experiences of an American lady is so interesting and pictures so clearly the Iecl－ ings and emotions of others that we repro－ duce it entire．It will be found very read－ able and instructive：
Messrs．Editiors
Did I not know that this land is filled with women who are unhappy and cannot tell the reason；are miserable when they
have every reason to be joyous，I should not have every reason to be joyous，I should no venture to address gou this letter．I believe， however， 1 can offer some suggestions thai will be valable to all women ard invalu able to mang．When was fifteen years old I presume－Aas Lappice and healinier than mast pain in excep from．I hardy knew what pan was except from lecarsay．But the situation changed sudenly and severely．I bining my Ife．I mining my hife．I felt strange sensations with greater power than before．My side pained me at times and agan 1 would feed a dun zching berween the shoulers．I had datting pains through the temples and a pressure on top of my head．I lost sleep， was going into 2 decline．I know that the
 occurrence among women，both young and old，but I did not realize what it meant 2 that time，and so was careless－with wian resnlts will appear．From then until within comfortable days，and I am now fity five sears old．

A few years after the events above stated my heart began to trouble me．At times 1
 right side enlaryed and frang．Mat sharp catting pains througg my qugs and rounds my shoulder blades．I could only breath in catches or gasps 20y therif with the greatest
effort．I mas rityout apptite one day 2nd effort．I was wityout appetate one day and the next very hanery，buralways contlipated Daring 2ll those years／I did not know what these troubleo meant tor did I realize how terribls the must ena．Of course I tried to overcome them；consulted docters and used remediest but it was of no arvail．Mis troables incroted，with the years；I had 2 serere pain in olie small of the back；my teeth became loosened；my tongue swelled to twice its natural size；my gums were like sponges，bleeding ireely at times，2ad my luags and nose both bled on different oceasions．At that rime I felt cold chills running ap mig back nod $I$ constandy expec toraly of nive The fide I pessed was very otiensire．The naids i passed wers frequenily like bloods ${ }^{\text {For }}$ 2nd then 2gain almo：shid albumen．For thirty years I did not know what it was to be free from headache arcasionaly would have 2 and a profasc perspiraion．God onij knows what 1 sulfered I 1 chand only krow that I existed and that mp tired
dife was ebbing 2 why wilh nothing to arrest life
decay．

I wess in this condition a litule over two sears ago and neither mpself nor my friends cxpected or hoped for angithing but death． pictere，if your can dearly ！crty pears of 2gony 2nd sou can undersiand why we felt beran 2 Der mariser of treatment add I sam new ressits Rify pain became jess in－ tense．The mostsercce symploms decreased． My bope revived and I seemed awak． ening to zaother life．I contianed to im－ prove until noy bealth $25 d$ sireogih retarned， has enabing ue to caricy out 2 desire which I consider 2 ，anty in Friting poa this letter and saying that nay life，bealuh 2ad hope for coming sears mre due wholly to warex＇s
Safe Care，which has doase for me，zod also Safe Care，which has done fors．
restored man of my friedd．
Majy who have read these lines will por－ sibly think 1 2m orer－cathasiastic．is it possibic to be orerentiassiastic after being clivernd from a life of miserf，abd brocght into 2 world of comfort 2cd happiressr？ Was the blind man mentioned in the Eibic， whoee sinht waz restored，too enthasistic？
The fact is I am only doing what I belicre tivg my experience pablic，for I ktoon tbere are myinicis of
 asved as I have been．This is 2 moct sai－

the people．If the mothers of this land are unhealthy，America will become a nation of invalids，and any means which can so safely and surely avert this danger as that which I have described，should be qladly welcomed by all true men and women．

Tofrka，Kansas，${ }_{27 \mathrm{r}}$（ Quincy street．

## Sputhles．

A litarary man who recenly tried the power of the human eye on a ferocious bull， secoverisg fill fith in such mesme bruis
＂What a lovely little snowdrop that is ！ said a friend to a wag，as a blonde beauty， with flouing tresses，passed them in the park． belle，＂said the way．
Proprssor（to class in history）：＂Why does an Indian ustally make up his mind more quickly than a white man？＂Small
boy（near the fool）：＂Because he bas most－ boy（near the foot）：＂Be
ly less mind to make up．＂
＂My case is just this，＂said a citizen to lawger：＂the plaintifi will spear thal I hit I will swear that I did not．Now， what can yon lawgers make out of that if we was the reply．
＇Chiloren，＇sadd a school examiner，after bearing some of their essays read－＂＇Chil－ aren，you should never use a preposition to end 2 sentence wita．＂＂Isn＇t ${ }^{2}$ nth 2 pre－ position ？＂shouted 2 boy．The examiner pade no reply．
Patirfabillias ：＂I cannot conceive，my love，what is the matter with my ratch； think it must want cleaning．＂＂Oh no，
papa dear！I don＇t think it need＇s cleaning papa dear！I dont think it needs cleaniog， beccuse baby and 1 had it washing
bsin for ever so long this morning．＇
Tencuire，＂John what are your bcots made of ？＂Eoy：＂Of lealher，sir． Teacher：＂Where does leather come from？＂ Boy：＂From the hide of the ox．＂Teacher：
＂What animal，therefore，supplies pou with ＂What animal，therefore，supplies you with
boots and shoes，2nd gives ycu meat boots and shoes，20．＂
Bos：＂My father．＂
A COUNTRYMAN applied lately to 2 solici－ tor for legal advice．Alter he had given the circumstances of the case，the lawyer asked him if he had stated the facts exactly 25 they had occarred．＂Oh，2y，sir，＂rejoined the applicant，＂I thought it best to tell ye the truth．Ye can pat the lies to it your－self
＂Gcod momiog，children，＂said a subur－ ban doctor，as he met three or fors little
 are you this morning？＂＂We dursen＇t tell fon，＂replied the oldest， 2 boy of eight． Dare not tell me 1＂＂exclaimed the docior． ＂And why not 2＂＂Cause papa said that last year it cost him orer \＆ 10 to have you come in and ask us how we were．＂
Ovone oceasion Rowland Hill mas preach－ ing for 2 public cbavity，when 2 note was hanaed up to him，inquiniog noticed the matter in the conirse of his ser none and matter in we cosrse of his ser men，and pronounced decidediy that such 2
person could not do 0 in Chistizn honesty． ＂Bent，my friends，＂he added，＂I wonld ad． vise you who 2 re not insolvent not to pass the plate，this evenins， 23 the people will be the plate，this eveninf， 23 the people
sure to sill，＂There goes the taukrept＇＂
＂Please，mame＂，saia Bridget，＂I＇ve come to gire ye notice．＂Mrs．Bezconhill ：＂Why Bridget！What do sou mean？Haren you almays been treated well，and haven＇ Bridgat：Privi＇zps I have，mam ；bat iver since I＇re been here，I＇ve Doliced that all since 1 re been here， y ve Doticed that all
ibe magazines go into the parlour，and its the magazines go iato khe parlour，and its
not antil ivergbody in the houfe has rid＇em that we see was of＇cm in the kiteben．All me fri＇nds the talkin＇of the iscays $20^{\prime}$ the pazpers， $20^{\circ}$ I fects tike a fool not to be able to talk intilligently hid me zomprapy．
Eorress，the poet，was in the habit of daily ridiog throxich s country tampike gate， and One das，zays Mr．S．C．Hall，Le pre－ sented； 25 manal，his two－perce to the gate
kreper．＂What＇s that for？＂he ased．
 ＂Fos my horse，of courze．＂＂But，sir，you
have no horse＂＂Dear me！＂cxcuimed
 the astonished poct，＂amm wakiag？Niss
Moore told 2ifr．Hall tic aneciote．She also told him that Bofles on one occasion， gave her a Bitle as a birthday present．She
asked him to write her name in it．He did asked him to write her name in it．He did sol＂isseribing the sucred

Jescrin Resas，Percy，writes：＂I kres indioed to try Dr．Thomas＇Ecicetric Oil for a lameters whin troakied me for three or four jears，atd I fond it the beet article I ever cued．It has been a preat blosainy 20 me．Frajds may imitate Un．Thocuss Ec．


## čilisictlantout．

Charlottre Russe．－One ounce of gela－ tine dissolved in two gills of boiling milk， whites of four eggs beaten to a stid froth， one and a hall cups of white powdered sugar one pint thick cream whppla for favour ing，line 2 large mould with sponge cake； mix the a latine surar cream and flarour－ ing together，add lightly the frothed whites ing logether，ada gat the mould and set away on ice till required for use．

## No． 1.

Vital Questions ！！
Ask the most eminent physician
Of any school，what in the best thing in the world for quieting and allaying all arritation compleints ing sleep almays？
And they will
＂Some form tell you unhesitatingly
chapter I ．
Ask any or all of the most eminent physi－ cians ：

What is the best and only remedy that can be relied on to cure all diseases of the kidneys and urinary organs；such as Bright＇s disease，diabetes，retention or inability to re－ tain urine，and all the diseasey and ailments peculiar to women？＂
＂And they will tell yoyexplicity ang em－ Ask the same ph．
Ask the same physician？
＂What is the most reliab add surest cure for all liverdiseases or dyspe siz；constipation， indigection，biliousness，mplarial fever，ague， etc？＂and they will tell yfa：

Mrandrake ：or Dandelico
Hence，when these remedies are combined with olthers equally valuable
And compounded into Hop Bitters，such 2 wonderfal and mysterious curative porer is developed which is so varicd in its opera－
tions that no disese or ill health can tions that no disease or ill health can
possibly exist or resist its power，and yet it possi
is

Harmeless for the most frail woman，weak－ est invalid or smallest child to use．
chapter 12.

## ＂Pstients

Almost dead or nearly dying＂
For years，20d given up by physicians of Bright＇s and other kidney diseases，liver complaints，severe coughs called consump． tion，have bsen cured．
Women gone nearly crazy
From 2 gony of peurel
From zeony of neuralgiz，nervonssiess， wakefulness and rarious discases peculiar to
women．
People drapro out of shape from excruciat－ ing pangs of Rheumatism．
Infammatory 2rd chro
from scomatory 2 ad chronic，or suffering from scrofala
Salt theam，blood poisoning，dysfepsia Salt rheam，blood poisoning，dyspepsia
indigestion，and in fact almost all diseases indig

Nature is heir to
Have been cured by Hop Bitters，proof of which can be foand in every neighbourhood a the known morld

Dr．W．Asmstronic，Toronto，wites： I bave been usins Norlhrop \＆i Lyman＇s Emalsion of Cod Liver Oil and Hypophos－ phites of Lime and Soda for Chroaic Bron－ chitis with the best resalts．I believe it is the test Emalsion in the market Having tested the different kinds，I unhesitatiogly give it the preference when prescribing for my＝onsamplive patients，or for Throat and LuIg 2 fectiont
Coffer Cars．－One cap of strong coffec， one cup of molasses，one cup of batter，two of flour，one uatmeg，one teaspoonfal of cinammos，one cup of rising，cone cap of cinazmo3，one cup of raisios，one cup of
corrants，avd one－half seaspoonfal of saler－ atus This makies two loares．
impontait Changrs．－There are two pariods in the life of cerery lemale ghen the Eystem zoderroes great changes First，the that of womanitood to old ace．These ave the critical changos of life，and the system shoald be noarisbed and rexalated by that matchless tooic，Bardock Blood Bitters．It matehicss rooic，Bardock Blood Bilters．It is inval
males．
Tosato Sour．－To ode pint of canded somatoes，oi foar lante raw oces cat up fire， zedi ous quart of boung water，and let them of sodx ；when it fosins up add cose pint o swet milk，Fepper，tuxd pleniy of batter or ose cup of sweet cresm instead of the baties， 2 few ciackers ralled 6ice，and serve．
If yocr children are troskied with worms gits etem Soliser Graras＇Fione Extermin－

How to Clesan Oil．Cloths．－To ruin them－ciean them wilh hot water or sosp suds，and leave them half wiped，and they will look very bright while wet，and very dingy mad dirty whe dry，3nd soon crack and peel off．But if you wish to preserve them，and have them look new and nice， wash them with soft fannel and luke－warm water，and wipe thoroughly dry．If you dry hem to look extra nice，alter they are dry，drop a few spoonfuis of milk over them and rub with a small，dry cloth．
Ill．fitting boots and shoes cause corns． Holloway＇s Corn Cure is the article to use．
Clre for Dzafnass．－As numerons testimonials will show，there is no more re liable cure for deafness than Hagyard＇s Yel how Oil．It is also the best remedy for ear ache，sore throat，croup，rheumatism，and
for pains and lameness generally．Used ex－ ternally and internally．
Coffis Caks．－One egg，onc－half cup of molasses，two－thirds cup of sugar，one－half cup of cold cuffec，one－half cup of butter，one scant teaspoonful of soda，two and one－half cups of flour，one cup of raisins，and spice to suit the taste．This makes a good sized loaf．

Mr．G．W．Macully，Pavilion Mountain， B．C．，writes ：＂Dr．Thomas＇Eclectric Oil ism．Nearly every I ever used for Rheuma ism．Nearly every winter I am laid up with Kheumatism，and have tried nearly every until I used Dr．Thomas＇Eclectric Oil．It has worked wonders for me，and I want an has worked wonders for me，and
other supply for my friends，＂etc．
Thix Sacret Out．－The secret of beaviy has been at last revealed．Without good bealth，purs blood and 2 fair cicar skin none can possess good looks．What is more re－ puisive than pimples，blotches，and a sallow or pasty complexion ？Burdock Blood Bit－ ters reveal the fact that all can gain pure blood and freedom from the repulsive dis－ eases of the skin that result from impuri－ ties．
Roll Jelly Caks．－Two eggs，one cap fol sugar，one cap of creamo，one－half teaspoon ness of an． Dess of cream．Batter while paper，pat in 2 loDg pan，bake quickly．Remove irom the tide soon as doach 29 tpon 2 towel botton possible．Ipad with jelly and roll quickly 2 about the tave the lowel closely wrapped about the cake until ready to cut．
Mr．T．C．Weils，Chemist and Draggist， Port Colborne，Ont．．Writes：＂Northrop \＆ Ipman＇s Vegetable Discovery and Dyspeptic Care sell 3 well，and sives the best of satisfac－ tion for all diseases of the blood．＂It never fails to root oat all diseases from the systera， fies the blood，and will make you look the picture of health and happiness．


SEWINO

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All Fork Warmantad Noosicy， 0 il

##  <br> 22 Queen St．West（near Yonge），

OROINTO．


Agonta mantod in overy villago, town, and tornship, to mako
 Mrose 0 O. BEAOEETY ZOBINSON,

Jordan Street, Toronto.
Publisher.

## Tht

TURONTO, MAY, 1884.

## A GOOD COUNTRY FOR FARMERS.

We clip the tollowing sensible and timely remarks from a city contemporary :
"Hev. J. A. Nelson, of Lamrenco, Kansas, has been travalling through westorn Outario, and writes to the Inwrence Gazette on Cansda and Har Customs. He aaye it is a zood country, and that the people have more health and comfort than can be found anywhere else, although they think they can do bettor in the States. 'The greatest fanlt and wonder,' ho says, 'is they do not seem to baliere ailher in themselves or their country. They disparage their land and the crops they produca. Thes compareopportunities with the States arfavourably to themselves.' Rev. J. A . Halson is right. The great trouble Rith Canadians is that they haro not enough national concoit. One reason for Toronto's Rapid growth is that the people believe in it. They think it has a great future before it, and are ready to invest their sarings hero. Every rasident of Toronto is certain that it is bound to be a very great city. If Cansdians
 geacrally were so cnthasissic regarding the fatare of the Toronto."

Fes, Ontario is a grood country, but, if we don't show that we appreciate it, who will ? There has been entirely too much said in our public journals in praise of our North-West and of prairie regions generally, and Ontario has reaped the truits of it in losing a very large number of her best citizens. Thousands of thrifty and enterprising men have sold their farms during the past four or five years and have gone to the West or the NorthWest, carrying with them in hard cash, the earnings of an industrious lifetime, and leaving behind them, in far to many instances, farms loaded down with mortgares by the new owners. Take, let us say, a farm of one Bundred acres, worth $\$ 7,000$. The new owner is able to scrape together $\$ 2,020$, and the balance of $\$ 5,000$ is raised by mortgage. The $\$ 7,000$ is taken out of the country, and along with it, perhaps $\$ 3,000$ realized from the sale of stock, implements, etc., to say nothing of other accumulations of thrifty husbandry, or ot men and women whose value cannot be computed in money. And what have weleft? The farm is there, it is true, but the $\$ 5,000$ mortgage is on it and two chances to one that mortgarge will keep the nose of the new proprietor to the grindstone as long as he lives Meantime the old proprietor finds himself stragyling with pioneer hardships-perhaps in Dakote, perhaps in Mranitoba, or Ferinaps in regions two or three hundred miles bejond. He begins life in a frorld that is entirely new to him. His neighbours, if there be any such nesuer thon a mile or two, are men he never saw nor heard of before, and when he comes to lnow who they are he may discover that of sill men they are among the least desirable to $=$ nnow. There are no schools, no post-office, no store, no raads, $n 0$ market place, and the only preaching he hears is when a colporteur or 2 missionary strays along the Fay. Moreorer, he has to run the gauntlet of cralones and blizzards with a rickety shanty orer his hend, and his crops may int under excessive rains, bo dried up with drouth, or deluured by srashoppers, or deviroyed by prairie fires Eo learns when 700 late that in selling the

Ontario farmstead, and leaving a comfortable home, the society of old friends, and all the advantages and conveniences of civilized settlement, he has made an irreparnble mistake. Not only so, but he learns that all the highfalutin' descriptions he once heard or read of concerning the fertility of prairie lands and the big bonanzas ia prairie farming have been for the most part stuff and nonsense, and that his old Ontario farm when well worked would yield him greater comforts and larger profits twice over. No, we don't sufficiently appreciate the value of Ontario in an agricultural sense, and too many of our people have as a conse juence been led to chase after chimeras. It is time that we awoke to the gravity of the situation, and that we talked the words of truth and soberness to our own people.

## MANURE RUNNING TO WASTE.

We think that if correct figures were obtained of the quantity of manure and other Eertilizers that is wasted every year in Ontadio, the result would be startling. In the cities, towns, and villages the aggregate is enormous, and yet the greater part of it might be'obtained by farmers at the cost of carting it home. Indeed, we fear the statement is too true, that on a large number of farms in the country the home product is not utilized, or, if it is, that no care is taken to get it into fit condition for giving strength and richness to the soil. This is a subject that demands attention, and it cannot be neglected, if a good average of crops is going to be maintained. We noticed in a London exchange the other day that the city authorities offered to supply the Asylum farm with the refuse, garbage, and excreta of the city, and that their offer had been gladly accepted by the superintendent of the institution. The farm has an area of three hundred acres, of which two hundred are for farming and forty-five for gardening purposes. The material will be collected by the city scarengers in air-tight tanks or barrels, and deposited in a reservoir or manure jard of the farm, where it will be thoroughly composted for use as required. We bare no doubt that the experiment will prove to be a satisfactory and profitable one, and we shall be surprised if farmers of the locality, who observe the results, do not become earnest rivals with the superintendent of the Asylum farm for the supply which he has just agreed to take as a favour to the city. But what shall we say of farmers in the vicinity of Toroato, who are far more negrectful of their opportunities? It is a fact that enough manure, the most valuable for fertilizing purposes, is flooded out from ance cattle byres into Ashbridge's Bay every jear to supply eighty farms, of a hondred acres each. There are at the present time 3,500 head of cattle fattening in those byres, and the flume or channel which carries the solid and liquid manure out into the bay, is 3 steadily flowing stream. To such an extent has this deposit resched that the kay now resembles nothing so much as a huge barnrard, full to overflowing with liquid and solid manure. We confess astonishment at this great waste, and especially in the vicinity of lands so much in need of the best kind of manure for the production of gurd crop: Etre, if senfwher, there is a fortune to te holl for the toling.

CANADIAN SHORTHORN HERDBOOK.

Below we give transfers of thomoughbreds reported up to April 21st, 1854. In the following list the person first named is the seller and the second the buyer.

Cow, Carnation (vol. 4), by Alexis [2676].Johu Payne, Cayuga; F. J. Ramsey, Dunnville.

Cow, Serena (vol. (i), by Grand Duke [7153].-F. Martindale, York ; F. J. Ramsey, Dunnville.

Cow, Glasserton Belle (vol. 8), by Cayuga Chief [2859].-F. T. Docker, Byng ; F. J. Ramsey, Dunnville.

Cow Glasserton Maid (vol. 8), by Scotsman 3rd [6229].-F. T. Docker, Byag; F. J. Ramsey, Dunnville.

Bull Calf, Sir William [11860], by Frame work 4th [9975].-Thos. A. Wright, Cartwright; A. Hanna, Enniskillen.

Bull Calf, Spotted Chief [11862], by Erin Chief [11S61].-J. Marshall, Jackson; N. Barber, Tara.

Bull, Duke of Rosehall [11867], by Victor Emmanuel [11S66].-Noah Bricker, Roseville; S. Cassel, Hayesville.

Bull Calf, Earl of Rosehill [11S68], by Victor Emmanuel [11866].-Noah Bricker, Roseville; Meno Snyder, Elmira.

Bull, Prince James [114:72], by Captain [9742].-R. Sommersville, Elder's Hill; Geo. Mitchell, Clarksburg.

Bull, Duke of Springß̈rook [11874], by British Statesman [S175].-Green Bros., Oakville; Lewis McKenney, Kingsmill.

Bull Calf, John A [11S75], by 5th Lord Red Rose [10178].-T. C. Stark, Gananoque; John Thompson, Gananoque.

Bull, Guy [11S76], by Lord Bright Eyes Ist [7319].-T. Dunbar, Harriston; P. Smart, Palmerston.

Eull, Stanley [11877], by Fairview Chief [9965].-R. D. Dundas, Springville; G. Scott, Peterbcro'.

Bull, Western Duke [11859], by Mazurka Duke [5703].-R. B. Ireland, Nelson; John MaDonald, Rock Lake, Manitoba.

Cow, lily of the West (rol. 9), by kiosstrooper [7495].-R. B. Ireland, Nelson; John McDonald, Rock Lake, Manitobs.

Bull, Tuscarora Duke [11858], by Mezurka Duke [5703].-R B. Ireland, Nelson; John MrDonald, Pock Lake, Manitobs.

Bull, Wentrorth [11879], by Mosstrooper [74.95].-John Dodd, East Flamboro'; T. Halt, Dundas.

Bull, Essex Lad [118\$3], by Jupiter 2nd [3419].-George Axford \& Son, Talbotville; Saml. NicCauley, South Woudslee.

Bull, Baron Balsem [118S6], by Ouray [7575].-George Hickingbottom, Balsam; Richard Werd, Balsam.

Corr, Bell Aiha (rol. 9), by Earon Jalsam [11SS6].-Thomas Eickingbottom, Balsam; Daniel Brims, Atholstane, Que.

Bull, Tom [11511], by King Lear [10110]. Jas. Kícarthur, Ailsa Craig; Jas. S. Grant, Granton.

Heifer Calf, Maude lith (rol. 9), by Fairriew Lad [12126].-Thomas Dunlur, Harriston; Valentine Plantz, Neustarlt.

Corr, Farmacrs Daisy (rol D), bje Enrl of Gras Hill [031]. - Tm. Rlennic, Conesinso; John Di.?, Eritton.

Bull, Forest Prince [11894], by Earl of Grass Hill [7031].-Wm. Glennie, Conestogo; Andrew Corry, Britton.
Bull, Tiger [11896], by Earl of Grass Eill [7031].-Wm. Glennie, Conestogo ; Dr. H. Banman, St. Jacobs.
Bull, Frederick [11895], by Earl of Grass Hill [7031].-Wm. Glennie, Conestogo; S. Musselman, Conestogo.

Bull, Fawsley Duke 5th [11895], by Baron Fawsley 4th [10897].-D. Mackenzie, M.P.P., Hyde Park; Henry-McGurk, Colinville.
Bull, Leopold [11902], by Oxford Chief [9047].-James Rea, Mimosa; Joha Rea, jr:, Eramosa.
Bull, Thiumph [11907], by Champion [9757] -Abraham Huff; Chatham; D. McDonald, Chatham.

Heifer. Beatty (vol. 9), by Duke of Kent [9076].-Abraham Huff, Chatham; W. Attwood, Salford.
Bull, Statesman 3rd [11912], by (imp.) Statesman [4119].-Thomas Coates, Shirley; Samuel Trenneller, Little Brittsin.

Bull, Duke of Oxford [11913], by Baron Thorndale [6621].-Wm. Colyer, Ingersoll; Adam Armstrong, Ingersoll.
Cow, Alicia (vol. 9), by Sherbrooke Duke of Airdrie [6246].-Col. Boulton, Cobuurg; R. Clarke, Colborne.

Bull, Grafton Boy [11208], by Geordie [7119].-David Elliott, Grafton; R. Clarke, Colborne.
Bull, Grafton Lad [11209], by Geordie [7119].-David Elliott, Grafton; Platt Hinman, Grafton.

Bull, Hamilton Chief [11079], by Haldimand Chief [36:52].-Platt Hinman, Grafton; Alonza W. Huyck, Castleton.
Bull, Duke of Ealdimand [11916], by Baron Sharon 4th [4600].-MI. O. Merritt, Smithville; Jos. High \& Son, Rainham.
Heifer, Spring Creek Daisy (vol. 9), by Sultan [10981].-John Doyle, Elora; James Grills, Elora.
Bull, Lord Palmerston [11923], by Sultan [10981].-John Doyle, Elora; Ed. Goodwin, Palmerston.
Bull, Duke of Oxford [11926], by Duke of Wellington [11401].-W. \& C. Carroll. Norwich; Samuel Tuttle, Oriel.

Bull, Raaring Lion [11905], by Canadian Framework [8198].-Wm. Werry, Solina; R. T. Phillips, Whitby.

Bull, Dollar Duke [11927], by Ned of Thornhill [7508].-A. Muldoon, Thornhill ; Peter Eoynton, Dollar.

Bull Calf, Jumbo [1192s], by Dollar Duke [11927].-P. Boynton, Dollar ; B. Vradenburg, Ellesmere.

Cow, Alphea 6th (rol. 9), by Isabella's Oxford 2nd [5s15].-Scth Heacock, Kettleby; R. J. Kennedy, Aurora.

Bull, Waterloo Lad [11034], by King [10831].-James Taylor, Massboro' : John Patterson, Camphellviilc.

Bull, Waterloo Boy [11033], by King [10831]-James Taylor, Mosboro'; E. Braces, Breslau.
Bull, Earl of Woolwich [11932], by Brown Joe [11169]].J. S. Snider, Winterburn; Jas, Teylor, Mostwon'.
Eull, Earl of Fairviert [11931], bs Earl of Clifion [8503].-TL Pannabecker, Hespeler; Jes. Tegion, Mosboro'.

Cow, Lucy (vol. 9), by Turk [11172].-Thos. Treharne, Denfield ; J. Zavitz, Poplar Hill.
Bull, Duke of Norfolk [11954] by Rayal Duke [7704].-James Healy, Strathroy, Jno. Eldridge, Hepworth.
Bull, Earl of Britannia [11957], by Red Duke [9196].- Paul Brown, Britannia; John Read, Streetsville.
Bull, Sir Arthur [11958], by Captain Cook [S207].-George Bell, Edgely; E. Whitmore, Edgely.
Bull, Orpheus 17th [11962], by Wild Eyes Duke [6503].-Canada West Farm Stock Association ; J. R. Martyn, Cayuga.
Bull, Bell Duke of Springwood [11963], by 2nd Duke of Springwood [5978].—G. Hickingbottom, Whitby ; R. Mutch, sr., Auburn.

Heifer, Purity (vol. 9), by Barmpton Hero [6595].-Chas. Nicklin, Ponsonby ; M. Durrant, Winterbourne.
Bull, Prince Leopold [11970], by Lord Nelson [10170].-Robt. Hall, Peteboro' ; Jos. Harrison, Springville.

Cow, Lady Juliet (vol. 9), by 11th Seraph [11971].-W.W. McAlister, Stoney Mountain; Laycock Bros., Fort Ellen, Manitoba.

Bull, Lord Marmion [11972], by Lord Byron [8819].-W. W. McAlister, Stoney Mountain ; Laycock Bros., Fort Ellen.

Bull, Duke of Wellington [11973], by Marquis of Lorne [9443].-Geo. Burnett, Winterbourne ; Henry Ernst, Maston.
Bull, Napoleon [11974], by Marquis of Lorne [9443].-Geo. Burnett, Winterbourne; E. Heber, Conestogo.

Bull, Glanford Duke [11975], by Lorne [7393].-Chas. Terryberry, North Glanford; D. H. Baldwin, Carlo, Ill.

Bull, Wentworth Lad [11976], by Lorne [7393]-Chas. Terryberry, North Glanford; D. H. Baldwin, Carlo, II.

Cow, Duchess of Stonewall (vol. 9), by Edward Hanlan [7046]. - W. W. McAlister, Stoney Mountain : S. J. Jackson, Stonewall. Bull, Duke of Stonewall [11978], by Alister McAlister [9655].-W. W. McAlister, Stoney Mountain ; S. J. Jackson, Stonewall.

Bull, Red Rock [11950], by Lord Byron [6810].-W. W. McAlister, Stoney Mountain ; Thos. Madill, Stonewall.

Bull, Mountaineer [11979], by 11th Seraph [11971].-W. W. McAlister, Stoney Mountain; D. McDDonold, Stoney Mountain.

Cow, Grassmere Beauty (rol. 9), by 11th Seraph [11971].-W. W. MaAlister, Stoney Mountain ; Alex. Matheson, Stonewall.
Bull, Garfield [11946], by Constance Dake [8261]-Jas. Cowan, Galt; Hugh Fergusoa, Avonbank.
Bull, Prince Edward [11947], by Garfield [11946].-Edmund Turner. Carlingford Allan Davis, Prince Edward.

Bull, Honest Willic [11085], by Clockmbor [11983].-R. \& W. Scott, Harriston; George Leibolt, Alsfeldt.
Bull. Carrick Lad [119S2], by Earl Minto [7020].-R. \& W. Scott, Harriston ; M. Vollick, Krildmay.
Bull, Young NLinto [11986], by Earl Alinto [7020].-R. \& W. Scott, Harriston ; In MeDonald, ${ }^{2}$ amestorn.
Bull, Forest Hope [11091], by Fashion's Hope [70S7].-Wm. Hedlos, Duncrief, Wm. S. Whillans, Forest

Bull Calf, Rfilrcrion [11968], by Eoyal

Barmpton [11967].-Benj. Shuh, Berlin; H. Doering, Milverton.
Bull, Stanley [11960], by Napoleon [9005]. -B. Shuh, Berlin, J. S. Hallman, Petersburg.

TABLE SHOWING THE QUANTYTY OF SEEDS USUALLY SOWN UPON AN ACRE.


The Argentine Republic and Patagonia promise to be great future grain producers.
Minnesota wheat seems to be growing softer, being more so this year than ever.
There are 350 herd of pure-bred cattle in Ontario, the average being $10 \frac{1}{3}$ cows and three bulls.
Danish butter brings thirty-three cents a pound in London, England, and Jersey twentyfive cents.
Overshot-wheel mills can be ran by dry sand-spouted to the wheel and returned by elevator buckets.
Tee Montreal Corn Exchange advises that all taxes on breadstuff betreen Canada and United States be done away.
There are 300,000 dogs in Tennessee, U.S.A. causing a yearly loss in sheep raising (preventing of) of eight million dollars.
Marce list there were 7,773 cattle suffering from foot and mouth disease in Great Britoin, and $1,5 \mathrm{~s} 0$ trere attacked the veek ending that day.
A Jersey cow has lately yielded 323 lbs . 11 oz milk in seven days, chuming 27 lbs ., 10 oz. butter, beating "Mary Anne of St. Lambert" by three-quarters of an ounce.

Twide sent her first trial cargo of wheat to England in 1874, and in 1852 sent thirtyseven million bushels. Still she hos over 100 million acres of land not get used for wheat.
In Germany it costs $\$ 17.50$ to cultivate $3 n$ acre of wheat. It costs \$14 in the United States; but the return in Germany is $\$ 22.75$ per acre, and in the United Statos only $\$ 14.31$.
Tae 1sth vol. American Jersey C. C. Herd Register is out. Bull numbers carried from 10,000 to 11,000 , fomales from 21,000 to 23,000 though leas than three months sinco vol. If res isscad.

## BEES AND POULTRX.

## INIERESTING PARAGRAPHS ABOUT BEES.

Bees are members of the very large, and important order of insects, the Hymenoptera. which also includes the ants:-

In the scale of animal life we may place the bee next to man, for intelligence and skill.

Bees, honey and wax aro referred to in the Scripture ; and they are now plentiful in Palestine, where they have been bred for over 3,000 years.

Eastern hives are of burnt clay, like a -drain pipe, at one end being a hole for hooking out the honey, while at the other the bees enter. The other honey, or "dibs" of the Bible, was made from the boiled juice of कrapes.

Wax is used as a metaphor and no other reference is made to it in sacred writ.
Bees were well-known in England in the reign of Henry III.; and the American bee has been imported from Europe, those now found wild on this continent, having escaped at times.

The common, or Black Bee, is a native of Germany, and has been improved by crossing with the Italian (or Ligurian) stock, brought into America in 1860.

These and tine Cyprian are the best known varieties, though there are other valuable, foreign breeds.

Our present knowledge of bees, and improved method of keeping, are mainly due to four devoted, untiring, and able observers, Huber and Dezierzon in Europe, Largstroth and Quinley in America, and they have been ably aided by such men as Hetherington, Root, Cook, Jones (of Ontario) Muth, and many others, fascinated with the gentle science. None, but those who know, would believe all the wondrous tales of bee life, that the daily work of an apiarist unfolds.
A hive consists of the brood, one queen, several hundred drones, and many thousand workers (about 12,000 to a medium hive). The queen has a long, large, pointed body, has a sting, lives from two to four years, and lays perbaps 100,000 egys in a season, and sometimes 2,000 in twenty-four hours. She meets the drone (male) in the air, and one connection fertilizes all the eggo laid in her lifetime. Laying is her work, and she does not govern the hive-work, as was once thought, though the bees seem fond of her, and if she is removed from any cause, they bnow it in about one hour. They will work for a short time without her, but then, taking a cell (containing an unhatched worker) they enlarge it, feed the larve royal jelly, and turn it into a queen. A queen takes sixteen days to hatch, and her firstact is to kill the other queens, about Thatching out. The first eggs laid ere workers, the next drones, the third are queens, and Iastly workers again, until the end of life.

The drones are short and stout, without stings, with large eyes meeting at top of the head; they hatch in twenty-four days, and they live from $I$ few hours to a few months as necessity demands, being stung to death by the bees if honey supply runs short, or when swarming is over, as only ono of then in-required to meet the queen.

The vorkers are swaller, and are unde-
veloped females. They hatch out in twonty days, and for several days the young bees work within the hive, and after that, outside, collecting stores. They live from one to eight months; that is, if hatched in a busy time their life is short, but if in autumn, the life is longer as the dormant state they pass into in winter, does not use up their powers. The breeding begins about February or March, and in June and July "swarms" are thrown off from the parent hive. Four have been sent out in fourteen days, in one instance. The early swarms are the best.
Bees collect honey, wax, bee-bread, propolis, poison, and royal jelly. Honey is the nectar of flowers-though the bees gather it from other sources, as honey-dew, fruit, etc. This nectar, or honey, passes into the honey sack, or second stomach, devoted to that use, and from thence to the hive cells, but bees do not make honey as is commonly thought. Wax is secreted from the honey by the bee, and forms in scales on the under part of the body, from whence the feet remove it, and molded with the jaws, it is used for building honeycomb. Bee-bread is the pollen of flowers, and is the chief food of the young bees. Only one kind at a time is gathered, and is carried to the hive in little sacks on the hind legs. This is rubbed off into cells by the carrier who leaves it, and enother bee packs it tight, with its head, and, when two-thirds full, it is topped off with a little honey, and the cell sealed (covered) with wax, like the honey cells. Propolis is the gum of certain treebuds, and is used to seal cracks in the hive, and coat the inside-a layer appearing to be added yearly-the greater part being gathered in August. Poison is the fluid held in a sack at the top of the sting, which is left in the wound. If you attempt to pull it out, you only press more venom in, the right way is to scrape it off sideways.

Quick motions, offensive personal smells, (as from tobacco users, etc.) breathing into, or standing in the line of flight of the hive, cause the bees to sting. Bees only sting near the hive, never while out working, or on their way home, and they seldom warn. The poison loses its effect when often repeated, and some bee-keepers do not mind it. Many are afraid to keep bees on this account, but if you treat them reasonably, there is no more fear of them than there is of so many pigeons.

The comb of the bee-hive resembles several single sheets of paper hang from the roof, close set on each side with cells (twenty-five to the square inch) about one-fifth of an inciu in diameter and seven-sixteenths deep, for worker cells. Drone and queen are of course larger, sixteen or less to the inch.
It has been proved that bees prill fill cells, of other shape and size than their own mako, and also that if removed to an ever-blooming country of flowers, they still store honey, though some poetical writers say not. Great adrance has been made of late in bee-keeping, ss in using moveable frames (und thus completely controlling the becs), and the adoption of comb foundation, and extractors. It requires from fifteen to twenty-five pounds of honey to secrete one pound of was, and the time of the war-worker (or cell-maker) is worth as much more-and, koth thee drains, the artificial come lessens.

The arerage vield fur hive, in a range of
years, is from seventy to eighty pounds though 586 pounds have been made, under oxceptional care and opportunities, and again, in poor years, from twenty poilnds to none, have been known. The extractor allows the honey to be taken from the combs, and the latter are returned for refilling uninjured. Bees have fow diseases or enemies, dys?ntery (or spring dwindling) foul brood, moths, being the chief, and they are all avoidable.
Canada produces as fine honey as snywhere, but not enough for her own use, though well suited for bee-keeping. Honey pays in Ontario, at 14 and 16 cents a pound. Manitoba and the North-West are as well suited to bees as Ontario having abundent wild-btwom of plants and trees, a clear, dry air and a greater number of bright days. Some beantiful specimens of honey have been made here, already. The chief point is the wintering, which must be done in a quiet, dry, dark, frost proof place, kept at a temperature from 9 to 13 degrees above freezing. Bees give out great heat, in one case, when 6 degrees below freezing outside, it was 22 above in the hive, and strong hives will rise to 75 and 88 degrees in winter. The first honey in the spring is from the willows, then maples, fruit trees, dandelions, clovers, small fruits, bassrood; thistles, and ending up with fall flowers and late blooming trees. Basswood is the greatest honey yielding tree, but it stands second to white clover in quality (in general estimation) and price, thistles coming third. There are many other bee plants, notably buckwheat, which yield a plenty of dark, peculiarflavoured honey much liked in England.-Nor'-West Famner.

## POULTRY.

Under this head we include the four divisions: Fowls, Ducks, Geese, and Turkies.

In the extent to which they are kept, and the profits from them, they stand about in the order named.
The early history of the common fowl is unknown, though the Jungle cock of India, is supposed to be its parent. The Old Testament is quite silent about domestic fowls, though the New refers to them often, and Pliny mentions them also. We hear of them as bred on the shores of the Mediterranean, 1,500 years before Christ, and in the east the game fowl has been bred for fighting use, from very early times.
Fowls are kept wherever man dwells, but we must thank Asia for the original stock of all the many varieties of the present. In England, in the reign of Edward I., fowls were sold for one penny each, and up to as late as forty years ago, there were only these breeas known there: Game, Dorking, Poland, Horsham (or Sussex), Common, Shack-bag, Nalay, Bantam. To these have been added by improving, or importing the present long list.
In America we have about every variety of any importance, and have made some new ones of great value. In 1852 there were 2,500 birds shown at Boston, and now the poultry shors are a regalar, and siriking feature of the rearly exhibitions. The trode has tesome very large and protitahle, and supports several popers devoted to its interestes. The rifint

Mnlays mive the first of the asisties briught
to America, some of them boing two and a half to three and a half feet tall. In 1847 the Cochins or Shanghies created a "hen fever," and large prices were paid; one cock sold for \$525, and eggs for hatching in proportion.

Now we have Cochins, four varioties; Brahma (Pootras), two varieties; Malay; Game, forty-four varieties; Dorking, three varieties; Spanish, five varieties; Hamburgh, five varieties; Polands, seven varieties; Dominiques; Langshans; Plymouth Rocks; Lreghorns; Crevecours; La Fleche; Houdans; Breda (or Gueldres); La Bresse; Bantams, seven varieties; Dumpies (or Creepers); Red Caps; Silkey (or Negro) ; Emu (or Silkey Cochin) ; Frizzled; Rumpless. Of these, the last seven are chiefly ornamental, though each has some one or more useful points; but are not generally known. Of the next five, (except the Houdan) they are not yet much known outside of France, though having many very valuable points, which must make them popular some day.

> DUCES.

There are many wild varieties, but the best known. and the one from which it is thought our common tame stock spiung is the Mallard. Its plumage is exactly like the Rouen (tame) duck, and the majority of common tame ducks one sees are stunted Rouens.

The breeds are, Aflesbury; Rouen ; Pekin; Muscovy; Cayuga; East Indian (or Buenos Ayres) ; Call. The first three named, are the best and must known, the others being fancy, or little known, though with good points also. geese.
There are about a dozen wild varieties, the largest being the common "Gray Lag" of Europe from which are descended nearly all our tame varieties.

The tame breeds are, Toulouse; Embden; Common; Chinese; Egyptian; Hawiian; Siberian; Sevastopol; Don; Caromandel; African. The first three are widely known and the most valusble, the others being local or fancy breeds, and not in common use.

The goose is the earliest domestic waier fowl, and lives to the greatest age ( 50 to 100 years) and was held in high regard by the ancients. There are five known species, two of which are common to America, the rest to the other three quarters of the globe.

## THE TURKEY

is a native of North America, and the wild form is still found in the western portions. It was taken from Mexico to Spain, and thence to England, in 1524, and spread from there over the world. Early writers fancied it came from Turkey, and so named it.
The tame varieties are the, Bronze; Black; White; Buff; Narragansett; Slate: all of them good, and having their seperate patrons.

Of the mauy other domestic birds, and arimals commonly called "pet stock" kept for pleasure or ornament, tre intend speaking at some future time. Such are pea-forl, Guinea-hens, pigeons, cage-birds, rabbits, dogs, cats, etc., etc.

The value of poultry (on a farm, and their exports to a country) are not so well seen as those of larger stock, because made up of little thinge, A hen in a jear ourght to lay one hundred and fifty erse, worih ono cent sad ohalfeach, or a net profitizum asch hen of
one dollar a year. But, in this country where eggs and poultry are so scarce and costly, and food so cheap, the profit would be very much larger.
As far away as 1877, one steam-ship from Montreal for Englend, took nine thousand head of poultry, all four varicties.
In proportion, poultry pays the best of any stock, and egrs are cheaper than any other food, for the nutriment contained. A pound of egg equals two and three-querter pounds of beef, and contains in itself, all needed to sustain life, being, in this respect, like milk. As the weight of an egg increases very rapidly with its size, they should be sold by weight, as it is not fair to the breeder of large eggs to sell them git same price per dozen, as those from smaller breeds of fowls. It would also save the buyer getting stale eggs, as the latter weigh light, and would be detected at once with less trouble than the present process.

## INGUBATORS.

A great and growing interest is taken in batching eggs by artificial means. It has been a common, and perfectly successful industry in Egypt, for thousands of years. It's European history is recent, and not perfect, though wide and good success is had in France, where thousands of chickens, not one day old, are sold at fairs for raising.

The bush turkies of Australia gather about two to four cart-loads of vegetable matter in a heap, lay their eggs in the middle of it, cover them, and leave them to hatch by the heat of the rotting pile.

Reamur first took up the subject in Europe, working it with fermenting manure, and this process improved in America, ,but is said to be dirty, and troublesome, though still used in parts of France. Cantelo was the first to supply heat from above the eggs, and hifenasi, and a host of others everywhere have followed him, using hot air, steam, waier, and lately, electricity.
At present artificial hatching, has reached great success, but not enough for general adoption, and there is a fortune ready for the inventor of an Incubator as certain, and as little trouble as the old hen. Almost any will hatch from forty to sixty per cent, with close care and attention, and without these the best will fail. The common form is to supply heat from water (heated by a lamp) to a tray of eggs beneath regulating the heat by thermometers, and the whole encised in a box, with non-conducting linings.
The heat required is as near one kundred and two or one hundred and three derrees as possible. A little extra heat hills, though the egrs may get stone cold while hatching withoutinjury. Though ninety-eight degrees will not hatch, the heat may drop to that sometimes, without injury, but if it rises (say to ono hundred and eight, at times,) it kills a few each time, and this has been one great cause of failure.
The eirgs should be frest, and not jaired while hatching, though a man in Lousiana had one hundred and twenty chicks from one hundred and fifty egrs bought in the gencral, market, and some were killed by lightning, shile hatching.
Thisy are raluable os an eid, ky setting enl
the hens possible, and filling up thoir short broods, from the Incubator. A few at a time, added daily in warm weather untila Brahma or Cochin has twenty-five to forty which she can cover and care for. But when broody hens are scarce the Incubator steps in, as oven if only forty per cons hatch, they are very welcome.

We want early chicks, in February if possible, but the raising is more important, and harder than the hatching and requires, warmth, cleanliness and frequent feeding.
It is well to get an Incubator some time before wanted for business, and get experience, by a few eggs hatched. Study the directions with them, and remember the best need watching, and keep the heat one degree below the normal rate for fear of a sudden rise. You may have to attend them eight or ten times a day, though some go six to ten hours without attention. The kerosene lamp, as a heater, is about the cheapest, and best, and easily regulated, as no "self-regulator" can be aluays depended on, in sudden changes of weather. They cost from $\$ 28$ to $\$ 200$, but small, simple ones can be home made for $\$ 5$ to $\$ 15$ and the plans we will give, if any wish them.
It is strange that two or three days before hatching the eggs bear (without injury) more moving and change of heat than at any other time.

After hatching, the first twenty-four hours they do not need food, but the next two weeks food and drink, eight or ten times daily, and the next four weeks, seven to five times, and after that, three or four times.
Put a fer older chicks with them, to teach thern to eat, drink and scratch, and keep them warm.
Poultry if kept in any number, need grass land and plenty of room, but other stock can be kept also, for cattle eat freely after them, if not too many fowl are kept to the acre.
Mir. Wells of Essex, England, keeps five thousand fowls on five hundred acres, and as much other stock as before he started with poult - in fact the cows prefer to be with the fowls, ad the grass seems better and sweeter for them.

In closing we say, don't bother with a sick chicken or fowl, kill at once, unless rery valuable, or the trouble is easily cured, like cropbound, or cold, etc.

Some of the makers of Incubators ought to advertise in our columns, as there are a number in the United States, Canada, England, and France.

To tre inexperienced we will remark, that it is best not to try to keep too many kinds of formls. One breed, if well cared for, is better than a dozen that will soon mix and be of no distinct kind. For all purpases, we believe the Plymouth Rock to be the best.

IT may be a matter of rejoicing to the oldfashioned poultry raisers who allow their fowls only the trees es a saving of quarters, but the droppings thus lost ara annually more than the cost of good crops, to say nothing of a. loss of egrs for the insufficient warmth and care. It may be consoling that the trees are fertilized by the droppinss, but even this is not a safe conjecture, as the exposure to sun, moistuns, and minds soon deprives the manure of its ammonia hich is rery volatile.

## THE DAIRY.

## HOW IT PAYS.

It pays to feed well. Let me give you a case. Having $\Omega$ good lot of cows, which I have bred and reared myself and trained them well to be kiud and gentle in every way, I do not like to part with them. But having a few more than I could well take care of this year, I rented out five of them to a neighbour. One of these cows is a cross-bred pure Ayreshire and Jersey, and with her first calf gave eight pounds of butter in the first week's churning, with leer secund calf she gave twelve and one-half pounds the first week after the milk was kept (the calf was fed un skimmed milk only). This cow is now six years old and in her prime. The man complained of her and said she was a poor cow. "What feed do you give her ?" "No feed at all but the pasture in the swamp, meadow, and she milks only four quarts a day." I brought the cow home and she was a mere skeleton in a bag of loose skin. The first milking was three pints. I began to feed her as I knew she deserved. I gave her two quarts of fine ground corn meal and middlings mised with cut, sweet corn fodder three times a day, with what grass the pasture would affiord. The fourth day she milked nine quarts, the seventh day eleven and a-half quarts ; the first four days her milk made three pounds of butter, the last three days it made four pounds seven ounces. This is not her full yield, as she is putting on flesh, and will do so until she weighs 1.50 or 200 pounds more than she did when she came home.
If we figure this up the profit on this feed can be shown very easily. Four quarts a day at five cents-the price at wheh her milk has been sold all summer-is twenty cents. That is the value of swamp meadow feeding. Eleven and a-half quarts a day is equal to fifty-sevea and a half cents; the feed costs fifteen cents, so that this fifteen cents gives twenty-two and $a$-half cents profit. And to me the satisfaction of the thing is worth a good deal more than a dullar a day would be, for I certainly have a good deal of regard for my cows, which I have reared from the first, and each of which is a pet and regards me with evident kindliness and affection. At the rate shown by these figures ten cows would return S2.2.) daily profit for the expenditure of $\$ 1.00$, which is in itself, ass much as many a mechanic in a city is obliged to support his whole family upon. And yet there are farmers and dairymen who are growling every day of their lives that farming does not pay. I wish sume of them would change places with some of the people in towns and citices whom they profes to envy so much. What a mistake they would make. -N. Y. Times.

## BUTTER MAKING.

In skimming the cream ofi from milk, thero should always be milk enough skimmed with the cream to give the butter, when chumed, a bright, clean louk. Butter churned from clear cream, with little or no milk in it, will usually bave an oily or shiny look. This shows that the grain of the hutter is injured, which affects the keeping qualities of the butter.
Cream skimmed from different or several
milkings should never be mixed at once and churned in the same churn; but should bo allowed to stand mixed from eight to ten hours before being churned. Then the erean will be as one cream, of the same chemical condlition, and the butter will all come at the same time, clean from the buttermilk. If not allowed to stand after being mixed lufore being churned, the butter will not all come at one time in the cream. Hence a loss of a per cent. of butter in the buttermilk.
Butter should not he overworked, so as to destroy the grain, neither should there be any buttermilh left in it. I never allow my butter to be chumed until it is gathered compact in the luttermilk. Stop churning when the butter is in a gramulated state, then turn the buttermilk out of the churn through a sieve. A hair-sieve is the best adapted for this purpuse. This leaves no waste of butter in the butternilk, letting the butter remain in the churn. Then wash it by turning the water upon the butter. The force of the water upon the butter will separate the butter in its granulated state. Fill the churn half full or more with water, then stir up a little in the water, and you have rinsed the buttermilk out of the butter, without any working of the butter. Take the butter from of the water, using the ladle and sieve. Put the butter upun the worker, and, as you are putting on and working in the salt, yuu gather the butter compact for the first time.

This, you will perceive, is a saving of time and of handing of the butter up to this point. There is a difference of upinion as to the number of times that butter should be worked after $\backslash a l t i n g$ befure packing for market. I alway work my butter twice after salting, even when it comes in the best fossible condition. I work light, using care that my ladle or lever does not slip or slide on the butter. It wants time for the salt to dissolve and expel any and all foreign matter, and the salt will not properly dissolve unless the butter is worked a little.

CROSS BREEDING FOR TUE IDEAL DAIRY COW.

A correspondent of the Furimesis Gubelte (Dublin, Ireland,, alvocates cross breeding to produce the ideal dainy crow. His suggestions are worthy the consideration of dairymen aus dairy associations in this country. He says :-
I wish I could hear of some agricultural society or dairy association ufiering a substantial prize for the best all-round dairy cow, being a cross between two pure breeds. We should then have a lot of breeders trying different crosses, such as Shorthozn and Jersey, Shorthom and Dutch, Jersey and Suffolk Polled and others. At present it can't be said that we have any one breed that has all the requirements of a model dairy cow. You can get an odd Shorthorn that has all the points reguired, viz., size, deep milkers, milk rieh in butter fat, good breeders of saleable stock, and when past milking easily fattened, and coming to a good weight. But for one that is up to this standard of quality there are ten deficient in several of these points. as for instance, too great a tendency to run to fat, too short a lacteal period, and light milkers for the size

All our present distinct breeds are, no doubt, the result of selecting and crossing, and it is quite possible, by acting on my suggestions to find out a cross that would make a perfect dairy cow, and thus establish a new breed possessing all the necessary yualities. I believe a cross between the Shorthorn and Guernsey would come pretty clove to what we want.

## HOW TU CHURN QUICKLY.

Wr milk one cow, and when I have enough cream to churn $I$ iet it wer my stuve, high enoung to keep it frum scalding, but heat it well for four or five hours the evening beine I churn. When I go to bed, I set it otli, and leave it in the same roon, where the fire dues not go out. The first thing the girl due, in the morning is to vet it back and let it get thoroughly warmerd through. Then I Put hut water into the churn, and get that warm. Last week it took just two minuter, and the week before it took three minutes. The lutter was sweet and nice. I never chum crean skimmed the same day, as it will not come, for want of time to "cure." Before I thus treated the cream, my girl used to chom all the forenoon, and sometimes lunger, and never could succeed in getting it to come $\omega$ butter. Of course we threw the warm water out of the churn before putting in the warm cream.-Cori., Country Gentlernu"..

The art of butter-making will never reach perfection until we stop putting salt in the butter. It is a depraved taste that requires a calt taste in hutter. The most critical judges in the old country never think of alluwing anlt to come near the butter, and after getting accustomed to it there is all the difference lietween the two that there in between salt and frewh fish-flech or other dried or prepared fond. The true epicure could eat a pound uf unsalted butter at a sitting. It will be money in the dairyman's pocket when salt is abandoned in the dairy.-Americen Doirymen.
Tre ever-recurring question of whether or not dairy-farming pays may be said to be still in an unsettled condition, and we suppose it will remain so as long as there are some men who make it pay while others do not. Then, again, the question of whether or nut it prays depends very much on how you tisure it. If the farmer simply makes a living, adds nuthing to his farm or bank account, hut keeps his land in good heart and the buildings in repair, he does make farming pay yuit. ao well av the majority of those who live cha salaries in cities and fail to put anything in the bank.-Americin Darymun.

Tue Agriculturist telly how to make a two-stury milking-stoul that presents a number of conveniences. A board the width of an ordiuary stool seat, and twice the length, forms the first floor and rests on two stout legs. The two rear legs pass up through the long board and furnish two legs for the short board above that form the seat, two front legs being placed in the stool. it cleat is placed on the front edge of the long hoard to keep the pail, which is set on the front half of the first floor, from falling off duriug the process of milking. This arrangement prevents any necessity for placing the pail on the ground, and brings it nearer to the udder.


## HOME CIRCLE

## FARMER GORDONS ECONOMY.

Stephen Gordon was a rich farmer. Broad acres, fortile lands, and munoy at interest, were his, but with all this he was always talking economy. "We must economize " in this or that or the other, was always his theme. His family consisted of a wife and three boys, and an uncle of his, an old man of more than seventy years.

One morning bo entered the kitchen where his wife had just been working over butter, and had the great balls all ready for the market.
"My! Hannah: What butter! It makes a fellow's mouth water to look at it, and I've got forty cents a pound all winter; it's so much better than most folks' butter they are willing to pay a good price for't. How much have you made this month ?"
"This makes forty pounds this month."
"Woll that ain't bad this time of the year."
"No, but it's hard to work over so much butter by hand this cold weather. If I only had a butter-worker, it would be so much easier; it makes me so tired every time I work over ten or fifteen pounds. I don't get over it in two or three days, my arms and back are so lame. Can't I have a butterworker, Stephen?"
"Nonsense, wife! I suppose you want me to pay five dollars for a butter-worker don't you? Why, my mother had a large dairy, and she never wanted a butter-worker-ske prefered to do it with her hands and save the money, rather than spend it on every new thing that came along."
"Well, your father had more grass to mow than ever you had, and he never had a mow-ing-machine or a racking-maching, and you have both."
"Well; don't you see how much time and labour is saved? Why, I should have to hire twice the men I do now, if it wasn't for them."
"And don't you suppose it would save me time and strength too?"
"Well, perhaps you can have one some time, but I have got so many things to buy this spring; I've got to have a new horse and waggon, and several new fences, and $I$ - don't know what. I tell you, wife, we must economize all we can," ssid Stephen, as he left the room.

Yes, that was always the. way when she wanted anything; perhaps she might have it sometime, but now she must economize. This her husband said five years ago when she wanted a new stove, and she was using the old cracked stove yet. It was just so about everything in the house. Her home was bare and comfortless. Didn't she economize in everything? Wasn't her own wardrobe threadbare and aiso that of her boys? Didn't she patch clothes until it was time wasted to patch them more? Didn't she economize in everything but her table? Oh yes?-and the little woman rattled her dishes in a way that surprised Uncle Moses in the corner. She would economize so as to make Mr. Gordon feel it.
"Hannah, you shall have a batter-worker if you want it," said Uncle Moses.
"Nu, uncle, I will have one but you shan't give it to me. Stephen can afford it, or I would not have asked him. I havo taken too much from you already, but now I an going to economize so that I can have all I need. Husband is always taking economy to his family, but I can't see any way that he practises it himself; but he is going to."
The next day at dinner Mr. Gordon said, "I guess you forgot to put cream on this bolted ham, Hannuh."
"No, I didn't forget, but I am saving my oream for butter. I must make all I can, for we must economize."
And a little later:
"I'm ready for pie now, wife. Perbaps you've got one of those nice puddings that are just what I like."
"No, Stephen I have neither. It costs a great deal to make pastry and puddings, and it takes time, too. We must economize you know."
"Fapa, can't I have a sled? You said last winter perhaps I might this winter," said little Willie the six-year old.
"And can't I have a pair of skates?" said Fred a boy of ten. "It is such good skating, please buy them for me papa."
"No, indeed, boys, we must economize. I never had a sled or skates, and I guess you can do without them."
" You must have lost lots of fun, then; I'm real sorry for you," said Willie, with tears in his eyes. "I shan't let my boys go without when I'm a man."
A week passed by. In that time the Gordon family had no pastry, cakes or puddings. Now Mr. Gordon liked all kinds of sweetmeats, and it was hard for him to do without them. He craved them so much that when he went to the store he bought half-a-pound of block sugar and filled his pockets. He had never "economized" on his living, and he prided himself on setting as good a table as any one in town.
On going home one night he found the minister and his wife making a call. He was glad to see them, of course, and now he thought to himself, Hannah will have a decent supper. But what was his consternation to see, as he seated himself at the table, nothing but bread and butter, cold boiled ham and apple sauce.
"Well," said Mr. Gordon to his wife. "I am afraid the pastor will think your supper a scant one."
"I'm sorry, Stephen, but the fact is, we have been economizing lately, and they came solate that I had no time to prepare anything different."
"This delicious bread and butter needs no apology, to say nothing of the other good things," said the clergyman.
Poor Stephen! his pride was deeply hurt as he contrasted this table with others that had been spread in bonour of his pastor's visit.
"Have you met with losses recently?" asked the pastor's wife with concern.
"Oh, no," said Mr. Gordon. "But in the spring, on a farm, there are a great many things wanted and we are economizing in order to meet expenses."
The next morning Mr. Gordon called on a neighbour, Mr. Jones, to pay him for a pair of young cattle.
"Here is the money for the steers." said Mr. Gordon, handing him a roll of bills.

Mrs. Jones was working aver her butter in the kitchen. She had a butter-worker, and it was astonishing how fast she made the butter into cakes and stamped them, draining out every drop of buttor-milk with hardly an exortion, while Mr. Gordon watched her.
" Got a butter-wcrker, I see."
"Yes, and don't know how I ever lived without one. It is so easy working butter now compared with what it used to be. Why, it used to make me so tired to work over so much butter, that I wasn't good for anything for two days afterwards."
"Here, wife, is twenty dollars you wanted for a cloak. Give Mr. Gordon a receipt for fifty dollars."
Mr. Gordon stared.
Twenty dollars for a cloak! When had he given his wife that sum for anything? Ho looked around the kitchen. Here was a model range, a sink and everything convenient and handy with which the farmer's wife could do her work. What a contrast to Hannah's kitchen? He well knew he was better able to afford such an outfit than his neighbour was.
On returning, Mr. Gordon first stopped at the barn. Here everything was in order and everything convenient to work with. Was it passible he had made Hannah do all the economizing ?
In thè corner of the shed was something that looked like a sled. His little boy bad been trying to make one, and the words of his child rang in his ears, "I shen't let my boys go without them when I am a man."
He went into the house.
"Where is Hannah ?" he enquired of Uncle Moses.
"She's gone over to see Stile's sick child."
The farmer sat down and took his paper, but his thoughts were too busy to read. He had never looked so mean in his own eyes before. He was still angry with his wife for humbling him so the night before, by giving the minister and his wife such a supper. Yet now ss lie thought it over, he wondered how he could bave blamed her.
"Uncle Moses, how much do you think it would cost to clothe a woman for a year?"
"It's never cost much to clothe your'n," said he, his black syes snapping. "I never thought you could have been so mean and stingy with anyone as you have been with her. She's too good for ye, and it's time ye found it out. There ye've got enough to keep her a lady, but instead of that she can't even have things to work with. Ye'll never get a cent of my fortin'. I'll settle it all on Hannah and the boys."
"That's all right. Why did you not tell me how selfish I was before?"
"Haven't I been a-tellin' ye all tho time, and what good did it do? If yer stomach hadn't been pinched a little, yer uever would have found out how good it was to follow what yer allers a-preachin' to her. 'We must econornize.' 'We must economize.'"
"Well, I did miss the goodies, but that wasn't ail the reason, and it's never too late to mend."
After dinner Mrs: Gordon went back to the dying child, and her husband harnessed up and went to town. In about two hours he returned with a tinsmith, a new stove, a new churn, and a butter-worker; a new sled for

Willie and two new pairs of skates for the other boys.

When Mrs. Gordon came home she found the childreu rejoicing over their presents, and Uncle Moses and Mr. Gordon busy getting tea

Why, where did that stove come from?" said the astonished woman, and as her eye fell upon the new churn and butter-worker, she exclaimed:-
"Why what does it mean?"
"It means that we have done economizing, for the fresent, and that you are to have the money for yourself for all the butter you make. This is your capital to begin on," said her husband as he handed her twenty five dollars.

After this Mr. Gordun never told his family again, 'We must economize,' and Hannah gave him no cause to do so.

## PRAYING FOR PAPA.

A few nights ago a well-known citizen of this town, who has been walking for some time in the downward path, came out of his house and started down town for a night of carousal with some old companions he had promised to meet. His young wife had besought him with imploring eyes to spend the evening with her, and had reminded him of the time when evenings passed in her company were all too short. His little daughter had clung about his knees and coaxed in her pretty wilful way for "papa" to tell her some bed-time stories, but habit was stronger than love for wife and child, and he eluded their tender questioning by the special sophistries the father of evil advances at such time from his credit fund, and went his way. But when he was blocks distant from his home he found that in changing his coat he had forgotten to remove his wallet, and he could not go on a drinking bout without money, even though he knew that his family needed it, and his wife was economizing every day more and more in order to make up his deficits, and hehurried back and crept softly past the windows of the little home in order that he might steal in and obtain it, without running the gauntlet of either questions or caresses. But something stayed his feet; there was a fire in the grate within-for the night was chill-and it lit up the little parlour, and brought out in startling effects the pictures on the wall. But these were as nothing to the picture on the hearth. There, in the soft glow of the firelight, knelt his child at her mother's feet, its small hands clasped in prayer, its fair head bowed; and as its rosy lips whispered each word with childish distinctiveness, the father listened, spell-bound to the spot:

> "Now I loy me down to aleep, I pray tho Lord my soul to keep; I I Bhonld die before I wake, I pray the Lord my sool to take."

Sweet petition! The man himself, who stood there with bearded lips shut tightly together, had said that prayer once at his mother's knee. Where was that mother now? The sunset gates had long ago unbarred to let her pass through. But the child had not finished; he heard her "God bless mamma, papa, and my own self." Then there was a pause, and she lifted troubled blue ojes to her mother's facs.
"God bless papa," prompted the moiher, softly.
"God bless papa," lisped the little one.
"And-plense send him home sober"he could not hear the mother as she said this, but the child followed in a clear inspired tone:
"God—bless papa-and please-send him -home-sober. Amen." Mother and child sprang to their feet in alarm when the door opened suddenly; but they were not afraid when they saw who it was, returned so soon. But that night, when little Manie was being tucked up in bed, after such a romp with papa, she said in the sleepiest and most.cuntented of vc ess:

Iamma, Gud answers most as quick as the telephone, duesn't He?"-New Fork Journal.

## FATHERS AND SONS

I must look to the sheep in the fold,
See the cattlo are fed and parm;
So Jack, tell mother to wrap you well, Though the snors is deep and the meather colu, Yon are not a baby at six years old.

Trio feet of snow on the hill-side lay, But the sky fas as blue as June; And father and son came langhing heme When dinner was really at noon-
Knocking the snow from their weary feet Roby and hungry and longing to eat.
"The snow was so deep," the farmor anid, "That I feared I conld scarce get throagh." Tho mother turncd with a pleasant smile: "Then what could a little plsd do ?" "I Irod in n!y father's steps," said Jack; "Wherever he ucent I Kept his track."

The mother looked in the father's face; And a solemn thought was there; The words had gono liko a lightning flash To the seat of a nobler care:
" If he 'tread in my steps,' then day by day If \% carefally I must ohoose my way!
"For the child will do as the father does, And the track that I leavo behind,
If it be from, and clear, and straight The feet of my son will find. He will tread in his father's steps, and say:

Oh! fathers leading in Life's hard road, Be sure of the ateps you take; Then the sons you love, when gray-haired men, Will tread in them still for your sake. When grey-haired men to their sons will say:
We tread in our father's steps to.day"
We tread in our father's steps to-day."
—Lillic E. Barr, in N.Y. Iidger.

## STRENGTH AND WEAKNESS.

These two figures, I say, are everywhere; they are confronting each other in every Valley of Elah all over the world; the power of confident strength and the power of weakness reliant upon God. Gi : ath may thank his gods for his great muscles; it is a strength that has been handed over to him by them; but it is a strength that has been so completely handed over to him that he now trinks of it, boasts of it, uses it, as his. David's strength lies back of him in God, and only flows down from God through him as his hand needs it for the twisting of the sling that is to burl the stone. 0 , how the multitude stand waiting round every Valley of Elah where a David and a 'Goliath meet: How the Philistines shout for the battle as they see their champion step forth! How the Israelites tremble and their hearts sink when they see how weak their shepherd-boy looks! How the Philistines turn and flee when they see their giant fall! How the Israelites first gaze astonished, and then surround him with shoutings, as David comes
back with the heaci is the Philistine in his C...ints! And yot how the same scene is repeatea over and over again forever ; the arrogance of the Philistines and the timidity of the laraelites whenover a now power, contident in self, meets weakness reliant upon God.-Rev. Phillips Brooks.

## DENTIST OV THE PRESERVATION OF THF TEETH.

"Doctor, are not a great many tecth ruined by having the enamel worn off with tooth powders?" " No; that is a most pernicious fallacy. I wish all this world knew the truth, that the enamel of a tooth cannot be worn off with a brush and any kind of tooth powder; not if it were scrubbed for five hours a day for 150 years. More teeth are ruined by a fear of scouring them than by all other causes put together. The best way in the world to preserve a tooth is to keep it lighly polished; then no foreign substance adheres to it. These adhesions and gradual rustings are what destroy teeth. If you wish to keep a piece of steel you polish it. If you do not it will rust amay. It is preciscly the samo with a tooth. The only danger that can arise from the use of the harshest tooth powders is that they may injure the gums. Don't ever abe oharcoal or salt, for, while they are excellent for cleaning, they are ruinous to the gums. Charcoal is full of little, sharp slivers that get ander the gums or cot into them and cause trouble; and grains of salt, you know, have very sharp edges and corners. Cuttlebone tooth powders are the best, I think. But by all means keep the teeth clean and highly polished. That reminds me," continued the dentist, "a handsome and well-dressed lady came here yesterday and wished her teeth ' fixed up.' I looked into her month and saw about the foulest chasm I ever gazed into. Why, it was worse than a serwer. I told her I would give her a presoription, and when she had used it thoroughly for a week I would see her again. The prescripticy was for a tooth brush and a box of porder. Doubtless she was!rexed when the druggist 'compoun 'ed' it, but it was what she most needed, nevertheless."
"I have heard that many medicines given by the physioians injure the teeth. Is that true, doctor?"
"No, not to any considerable extent. Inl tell you where that idea cones from. You know, When a person's sick ho isn't so apt to clean his teeth as when he is well. That is one trouble; buta greater is that the teeth are not used much. Sick persons eat bat little, usually; and what they do eat is often in the form of pastes or gruels that do not demand much oherving. Now, the teeth are like any other part of the person; if they are unased they become soft and more sabject to the decaying influences. Put your arm in as sling for 8 month and the muscles and whole member will become soft and flabby. So with a tooth that is not used for some time. Now, when a tooth is growing softer each day, and it is not being cleaned as often as it was when it needed cleaning less, of course it rapidly fails. This is why the medicines are oharged with the destruction."
GET a few quires of blotting-paper, and sprinkle the sheets with the perfume desired; then put them under a weight until they become dry. When dry, put note-paper, envelopes, etc., between this sheets, and place them under a reight for a few hours. When removed, they will be found perfumed. The blotting-sheets may be utilized again, and can be made to retain their períume for a long time by keeping them from exposure to air.

# Sond Mo a Roso Irom Mif Jagol Mother's gravo. 

SONG AND CHORUS



chouds.


## YOUNG CAXADA.

## HUW A BEAR CAUGHT FISH.

Very few pruple, shys a Maine paper, know that bears take to water naturally. They ruan over the mountains and through the forests, dig open rotten logs for ants and worms s.and secure all the hornet's nests they can, and tear them to pieces and eat the young grubs, pick berries of all descriptions and eat them, and wuld recon to belong to the dry land animals. The fact is different. They luve the water, nut, perhaps as well as the moose and deer. but better than most dry land animals.
They are very fond of fish. and are expert tishermen, and they how more cunning and instinct, if not rearon than many city chaps I have seen fishing about the akes.

I came once suddenly upon a large bear in a thick swamp, lying upon a large hollow log across a hrook, tishing, and he was so much interested in his purt that he did not notice me until I had approached very near to him, su that I could see exactly how he baited his hook and played his fish. He fished in this wise:
There was a large hole through the $\log$, which he lay. and he thrust his foreaxpa through the hule and held his open paw in the water, and waited fur the fish to gather around and into it, and when full he clutched his tist and brought upa handful of fish, and sat and ate them with great gusto; then down with the paw again! and so on. The brook was fairly elive with !ittle trout and red-sided suckers, and some black suckers, so the old fellow let himself out on the fishes. He did not eat their heads There was quite a pile of them on the log. I suppose the oil in his paw attracted the fish and baited them even better than a fly hook, and his toe nails were his hooks, and sharp ones too, and once grabbed the fish are sure to stay.
They also catch frogs in these forest brooks, and drink of the pure water in hot summer days and love to lie and wallow in the muddy swamps an well as ,ur pigs in the mire. They often cross narrow places in lakes by swimming and also rivers, and seem to love to take a turn in the water. Tonce saw one swim ruing from the mainland to the hig island in Mócolmaguntic Lake, with just a streak of his lack out of ti:e water. looking like a $\log$ moring along. Sometimes you see only their heads out of water: at other times half of theír bodies are to he vern. We account for this difference by their cundition. If fat the grease help. to luoy them up ; if lean, they sink lower in the water

## ANIMALS FOR CHILDREN.

If you introduce a new cat, or dog, or bird into a nursery, where a gruup, of children are flaying with dollw, wr building blucks, or tin whliers--evergthin: is at ance devertet for the living creature. which must be admired, and caressed, and fed, and is an uiject of never ceasing inturest. Even a homely lull dog will thus come to he loved: and we have known one which was worthy of all the affection bestowed upon him, and showed in return the most perfect fidelity and gentleness toward
the littl3 people who used to play with him. Of course, in solecting animals which aro to be petsand playmates of children, it is exceedingly important to choose those which may be relied upon to be always faithful and friendly.
By their early acquaintance with animals thus obtained. children unconsciously acquire considerable knowledge of natural history, and their experience with their pets is not only a pleasure in itself, but a step in education.

2HL PRICE OF A DRLNE.
"Five cents a glass 1 " does any ono think, That that is really the price of a drink?
"Five cents a glass," I hear you say,
" Why that ien't very mach to pay."
Oh, no, indeed, tis a very small sum
You are passing over 'twixt finger and thumb, And if that wero all that you gave away, It wouldn't be very much to pay.
The price of a drink? let him decide
Who has lost his courage and lost his pride,
And lies a grovelling heap of clay
Not far removed from a beast to-day.
The price of a drink ? Let that one toll,
Who sleaps to night in a murderer $\varepsilon$ cell And feels within him the fires of hell, Honour and virtuo, love and truth Honour of manhood, the wreanh of fame Honour of manhood, the wreanh of fam These are the treasures thrown amay, As the price of a drink from day to das
"Five cents a glass !" how Satan laughed, As oer the bar the young man quaffod, The beaded lignor, for the demon know The terrible work that drink Fould do; And before the morning the viotim lay, With his life blood smiftly ebbing amay; And that was the price he paid, alas! For the pleasure of taking a social glass.

The price of a drink! if you want to know What some are willing to pay for it, go Through the wretched tencment over there, Where dingy windows and broken stairs, Where foul disease, like a vampira cramls With outetreached wings o'er the mouldy walls. There Poverty dwells with her hungry brood, Wild-oyed as demons for lack of food; There Shame, in a corner aronches low There Violence deals its ornel blow: And innocent ones are thns accursed, To pay the price of anothar's thirst.
$\because$ Five cents a ghass $1 "$ Oh, if that were all, The sacrifice eronld indeed be small; But the mones's worth is the least amount We pay ; and whoever will beep accopnt, Will learn the terrible waste anqulight That follows this rainons appetile. "Five cents a glass!" Does any one think That that is really the price of a drink?

## THE NEST IN THE MAIL-BOX.

We had to fasten a box for our mail on the gate-post, because the postmon is afraid of our dog, and will not come into the yard. Last summen two little bluebirds made a cunning nest right in the box.
The mamma bird laid five tiny eg, s, and sat on them," letting the postman drop the letters on her. Every morning and evening the newsboy put in the paper.
Papa bird brought her worms, and mamma, sister, and I used to watch him. He would never go in the box while we looked on, and when we walked away he would drop down as quick as a flash.

By-and-by there were five little bir $\mathrm{ls}_{\mathrm{s}}$ in the nest. We thought the lett-rs and papers would surely kiil them. But they did not; the birds grew finely. Their mouths were always wide open. One day I put some fine clumbs in the nest, thinking they would like to eat. I wish you could lave seen mamma bird. She flew arourd, acting as if crazy. Finally she began taking out the tiny crumbs one by one, until the last one was thrown
away. I had seen pictures of children feeding crumbs to birds, and thought it the right thing to do. But surely it was not the food these birds needed. For several weeks we watched them, and saw them grow.

We wanted to see the mamma teach them to fly. But they all leff suddenly. The nest was ompty one day, and we could never tell our birds from the others in the yard. I brought the nest into the house and kept it all winter. We wondered if we should see the little birds again the next year.

At the opening of spring we watched closely, and sure enough the bluebirds did come again, and built a nest in the same box. This time they made a better foundation, raised the west higher up, lined it with horse-hair, and put it in one corner of the bos. Then the mamma bird laid five little eggs, and we and they were happy. One day we missed an egg. The next day another was gone, and then another, until only one was left. We found that some bad boys had discovered the nest and were stealing the eggs. Finally the boys took the last one ; then we felt so sorry, and thought we should see the birds no more. But they did not give up. They at once tore to pieces the old nest, and built a new one in another corner. Four more little eggs were laid in it. The bad boys took two of those out. Then papa and I locked the box I thought the mamma, bird might be so frightened she would noft want to stay on the nest. But she did stay; and now we have two l.ttle baby birds which open their mouths wide and squirm whenever we raise the cover of the box.

## BOYS, CAN YOU TELL?

Boys should never go through life satisfied to be always borrowing other people's brains. There are some things tbey should tind out for themselves. A farmer's boy should discover for himself what timber will bear the most weight, what is the most elastic, what will last longest in the water, what out of the water, what is the best time to cut down trees for firewood? How many kinds of oaks grow in your region, and what is each specially good for? How does a bird fly without moving a wing or a feather? How does a snake climb a tree or a brick wall? Is there a difference between a deer's track and a hog's track? What is it? How often does a deer shed his horns, and what becomes of them? In building a chimney, whinh should be the largest, the throat or the funnel? Should it be wider at the top or drawn in? The boys see many horses. Did they ever see a white colt? Do they know how old the twig must be to bear peaches, and how old the vine is when grapes first hang upon it? There is a bird in the forest which never builds a nest, but lays her aggs in the nests of other birds. Can the boys tell what bird it is? Do they know that a hop vine aiways winds with the course of the sun, but a bean vine always winds the other way? Do they know that when a f orse crops grass he eats back towards him; but a cow eats outward from her, because she has no teeth upon her upper jaw, and has to gum it?

THE RURAT CANADIAN．

Thus rocis on wiaicu many a constitution gocas to pieces in Drepepila．The loss of Vivour which this diseses involves the mal． zulles which accompany it，ot which are ag．
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