Address communications to Agronomist, 73 Adelaide St. West, Toronto etc., all without actually reducing the

Lost Motion in Farming. adesirable in farm machin-As every fatmy knows, "lost mo The mower or binder which is profits from the operation of the farm efficient work. The power applied to all the lost motion possible in farming

pense of preparing a field and planting a crop, but due to the use of poor seed get a poor stand, thus limiting the south and west sides during the day er will have gone to the labor and expossibility of a profitable crop at the is not a proper place to keep the poul-Another will have planted more crops than he can properly care for and is unable to till them proper- if the sun's rays cannot get in its ly with much the same result. Others work, there is no means of warming have failed to fit the seedbed properly, and drying these buildings and mak-

thy of the careful thought and study mosphere and against the cold walls depends almost of every farmer. Obviously it is an of the poultry house, forms frost on knowledge of animal life. irreparable waste to expend time, the cold nights. This frost and dampthing of which life is made up, in less must be gotten rid of or it will baits as natural and artificial. In the development of lost motion f it accumulate to the extent that the former we have the foods. can be avoided.

Unfortunately all the lost motion healthful, the fowls will suffer and with almost any kind of bloody meat. perfect running machine. But by comparison, the well adjusted, well oiled rid of this majeture and the sum of getting bits and muskrats will do. Don't formachine runs smoothly in comparison purities in the poultry house air. It ings often lures dogs and cats instead to the neglected and wornout one. Nor warms the house so that the air takes of the animals intended. Furthermore, can all the lost motion be eliminated up the moisture and dries the walls you will have difficulty with hawks, in the conduct of a farm. There are and the additional warmth makes it crows, and other birds unless you use be foreseen or easily surmounted. But south side of the building. The foul Raccoons will eat almost anything if all the lost motion possible is elimand moisture-laden air can then Comb honey, fish (fresh, smoked of inated there will be much the same escape and fresh, pure, outdoor air canned) clams, and corn can be used. difference in the resulting efficiency—takes its place so that when the house The opossum can be caught with in the efficiency of the two types of vere weather, there is a good store Small, plucked birds are also good. machines with which every farmer is of fresh, vitalizing air for the fowls. Muskrat and rabbit flesh attra familiar

How can most of this lost motion be and planning in advance of the sea- getting too much, for glass (and we the like can be depended upon at times son's campaign and second by constant believe in glass in a poultry house) to fool this sly animal. vigilance during the producing season. lets out heat as fast as it lets it in and The head of a rabbit is ideal for crops, planted on better warms up too much during a sunny quite extensively. prepared and fertilized soil, using bet- day and cools down too rapidly at seed and giving better care night. If the house has too little glass, that this animal exists entirely upon operation. throughout the growing season is a the sun's rays cannot get in sufficient-step in the right direction. This will ly to be effective. A house which is in many cases make time available for of ordinary width (from 12 to 14 feet) the improvement of land for future will require about one full-sized, twocropping, as in the drainag of wet sash window, like those used in a areas, the application of lime or marl dwelling house, for every 8 feet in where these soil amendments are length. Of course these windows must needed, the growing of green ma-nure crops to supply needed humus, vide the necessary ventilation.

Danish poultryman who was a con-stant source of wonder to all in the Food, the na were about twice the size of other corrent farm income and at the same again and again what he did.

is a great deal of 'tost motion" in the operation of the average farm, and this "lost motion" is a great factor—possibly the greatest single factor—in determining the profit resulting from the operation of the ausiness.

Lost motion in the aperation of a farm is of so many kinds that it is scarcely possible to classify it, much less to catalogue it. But with his attention directed to it, any farmer can discover plenty of it by an analysis of his own business in the light of easily remembered experiences.

A trip through any farming section at almost any time during the cropgrowing season will reveal striking examples of this waste resulting from lost motion on every hand. One farm-lost motion on every hand on it entirely for all the warmth the motion of the business are the market the underection head the bulk of clean sate the under the business are the market. One hand the discover that the uncan be sate that the u

the poultry house gets except that me oats and bran," the Dane o say, "and you can have all the

For convenience, we may classify drag animals into traps. house will be uncomfortable and un-Skunks and civet cats may be drawn

handicaps which cannot possible to open the windows in the brush or weeds to hide the me

and the resulting profits—as there is must be closed again at night in se- sardines. Use the kind put up in oil

to breathe during the night.

mink. Tiny pieces are best though
The need of sufficient window space many people imagine the attractor mink. Tiny pieces are best though eliminated? First, by careful thought is readily seen, yet there is danger of ought to be large. Fish, frogs, and

In many cases a smaller acreage of a house which has too much glass weasel. Bloody meat is also used

When after muskrat do not forget

vegetables. Corn, potatoes, apples and parsnips are good. When snow covers the ground some green decoy is best. Parsley, celery, rots, and even a twig or two of even

Food, the natural bait, is not always This oid fellow had a effective. On the average farm there way of making chicks grow until they is usually an abundance of what the were about twice the size of other fur bearers eat. Furthermore, with chicks. People used to imagine that competition keen among pelt hunters, he had some mysterious secret by something better must be sought. The which he persuaded his chicks to paid that proves good at one time or grow so fast. They used to ask him place may not at another. Therefore, we must try to find out what will serve "It's the way I feed them," was his us best at each new set.

ished. Suppose you made sets one day and expected to draw animals the next, just before dawn, when the fur bearers are most active. With the bait evaporated, or practically so, you can-not hope for any great success. Most of the failures from fiquid, bait may be attributed to this one fault.

scent, and snow, sleet, and frost affect very obscure. The more important of especially raccoon, and opossum many sets must be baited close to a stream, or lake. blood and infectious diseases of the ment of the child's teeth. Should the water rise, the liquid scent joints.

collection of the state of the second of the state of the days—and this is often the case, been astonished at what these pictures Tepping Baits That Work.

Tepping Baits That Work.

Sucessful trappers generally find

The point of the case, been astonished at what these pictures diet of every child should include a have revealed to him.

Often they show that pus is prestigated and in addition to this there should be other for a week. Should there be rain, and in addition to this there should be other for a week. that bits are a great help. Knwever, snow, sleet, or frost, we may rest as- that there are pockets extending down one mut understand when to use them sured that this new type of attractor toward the roots which hold

are no magic mixtures which actually cian for some time.

New window-panes where those broken ones are, will not cost very much in money or time, but they'll keep out a heap of cold.

Cold, dark and dank stables are conducive to tuberculosis. A few hours spent in cleaning windows and renewing broken panes will be well repaid.

an old hat to keep out the cold wind; tartar. The first sign of tartar is nor is the cost of glass or setting it slight roughness, felt usually on th prohibitive.

chine, but can't get up in time the reakfast. from tartar deposits is a common cause of "bad breath." next morning to help get breakfast.

Generally speaking, the season has certainly emphasized the need of co-

The Growing Child-Article I.

Physical Defects Among School Children

Time and again careful investig .- the teeth become look tions by competent medical authori- are ties have shown that children lose a considerable part of the educational advantages open to them because they suffer from uncorrected physical de fects such as decayed teeth, enlarged tonsils and adenoids, malnutrition, defects of vision and the like. But great delivered where it is needed for efficient operation. This lost motion also greatly increases the wear and tear on the machine, until it becomes a discouraging task to try to use it is finally discarded.

There is a valuable lesson in the history of the old machine which has an application to the owner's business, and this "lost motion" in the operation of the were restant the sar great deal of flost motion" in the operation of the were grains and meat food, that is a great deal of flost motion" in the operation of the were grains and meat food, that is a great deal of flost motion" in the operation of the were grains and meat food, that is a great deal of flost motion" in the operation of the werage farm, and this "lost motion" in a great factorpossibly the greatest single factor—in determining the motion" in a great factor possibly the greatest single factor—in determining the motion of the werage farm, and distinct the flows are formed by the greatest curiosity over any-time to the mackers is a defects on the child's great curiosity over any-time from the defects on the child's physical development. Many parents do not real-time treated by white objects. By remems the macker of a proper diet is much greater tracted by white objects. When the weather feed, especially of the teeth may lead to find the muskrat is attracted by white objects. By remems the mean the mean the mean the mean the mean the mean that the condition is a present defects on the child's great curiosity over any-time, the second the machine white objects. By remems the mean test of the teeth may lead to find the muskrat is attracted by white objects. By remems the with objects. By remems the mean test of the teeth may lead to find the muskrat is attracted by white objects. By remems the with objects. By remems the mean test of the teeth may lead to find the muskrat is attracted by white objects. By remems the mean test of the teeth may lead to five leaded to the mean test. The first trouble with the average and feet and the muskrat is attrac as is this loss of education, it is not

examination proves it to be a fact. the food of your child you should make Neglected Teeth Cause Serious Illness. sure that especially those elements

teriologists, we know that neglect of nized, you will agree that proper care the teeth and mouth are responsible of the child's teeth really begins in There is yet another complaint to for a number of serious infectious dis-make against it. Water destroys the eases, whose origin until recently was have appeared, and should be directed these conditions are diseases of the Nursing at the breast is by all odds the

All modern up-to-date dentists now The various paste baits have over-come the faults of the liquids. This

poor in tilth or so poorly drained as to preclude the possibility of a profit from them.

These are typical examples of "lost motion" in farming which might be multiplied indefinitely. They are worthy of the careful thought and study of every formal support and against the cald at mosphere and against the cald at the cald at mosphere and against the cald at the discharge of poison and germs from the consequent absorption of the send the consequent absorption to good teeth, and that is the s are often the real cause of some large, firm and strong, so regular use be made with tit. Remember, there haps, has baffled the attending physi-stronger and better teeth. The food

Certainly not all rheumatic or systemic diseases are due to pus around the necks of the teeth, or from concealed abscesses at their roots, nor yet to infections of the tonsils. Yet it is strongly suspected that such mouth infections may often be the cause, or at least a contributing cause, of many diseases, such as tonsillitis, rheumatism, St. Vitus's dance, certain forms of heart and kidney diseases and obscure stomach ailments.

Tartar Deposits.

One of the commonest results of A window pane is a lot better than neglect of teeth is an accumulation of inside of the lower front teeth. is caused by deposits from the saliv Too many girls can play "The End of a hard chalky substance. The of a Perfect Day" on a talking ma- clean condition of the mouth resulting

Pyorrhea. The deposits of tartar where the not been one of uninterrupted prosperity for the fruit-grower, but it has cause, though not the only cause, of Rigg's disease, or pyorrhea. The gums of the "tooth drill," chools by means become irritated and infected by dis-ease-producing germs, the tissues are broken down and pus forms. Unless applied in the house putting his case in the ly hissolving the soft by ing the teeth and destre tachment of the soft t

Hints on Preserving Good Leeth From what has been said in a pre vious article, you will realize ho portant it is to look after your children's teeth, train them to care for them properly, and have a dentist examine them from time to time to make sure no defect is overlooked.

Due largely to the revelations of thich build bony structure, of which the X-ray, supplemented by careful the tooth is a type, are supplied in examination by physicians and bac-sufficient quantities. This fact recognized

The two most important elements needed to the diet for building sound teeth are lime and phosphoric acid fruits, green vegetables and pure

But there is another important thing influence of exercise. Just as regular use of the muscles makes the muscles a form that it will require chewing. For this reason the diet should include a certain amount of coarse material designed especially to exercise the teeth. Coarse whole-grain breads, hard tack, baked potatoes eaten with their jackets, fres

similar article to make good teeth.

y of the teeth, also spoken of "dental caries," caused by the lodge upon the less exposed parts of the tooth. As a result of their gift of the tooth. the tooth structure is softened. ing the succeeding generations of p.cteria to penetrate further into the sub-

stance of the tooth.

Much can be done to prevent this docay of the teeth, and this accumulacion of germs, by brushing and clean-ing the teeth regularly. Each child should be taught the proper use of the tooth brush, and the mother should train her chix to brush the teeth regularly after each meal. At the present of the tooth brush

er a true brood mare can be distin- the foal. Clean-cut limbs are an indiguished from a counterfeit and, inci- cation of quality, and quality nearly dentally, what is a fair price to place always indicates a good suckler. In on a brood mare that promises to be short, the kind of brood mare that the knees, turning the washing maor is a valuable producer. This question every man must answer for himself. About all that can be said is that a good problem or that a man with a natural love for animals likes that a good problem or that a good problem or that a man with a natural love for animals likes that a good problem or that a man with a natural love for animals likes that a good problem or that a man with a natural love for animals likes. that a good producing mare, like other There is a kind of brood mare that good farm animals, as a rule, is worth all that her owner asks. It is a weakness with most breeders that they can volves a hard-luck story. She is nearindividuals by a fairly good offer.

determine the value of a brood mare if her offspring could be seen, but this is reach, wealth against her sale against her new one. One at a time, as could be seen, but this is reach, wealth against her sale against her foal. is rarely possible. In buying a mare ng purposes the buyer must rely on his own judgment; hence, the better a judge he is the better he is likely to fare in the bargain.

Men who have given careful study

but is implicated by the setting of the ears, expression of eyes, shape of head and face, fine ess of now its, lips, neck, and shoulders. The critical judge of brood-mare type, no matter type, no matter type, locks first for a kindly then clean art features, you are not apt to go very far with that keeps them An electric lip to

large, placid eyes, and a pleasing car-

riage of the cars. In body conformation, depth and breadth are very essential, especially Often the question comes up wheth- in the quarters for the development of

try in winter. Practically all poultry

houses are without artificial heat and

blinded to the merits of the best ly always a clumsy brute. That is the mildest term her owner could possibly use in referring to her. Her clumsibefore and after birth. More than mentioned. Now the daily routine likely she will step on her foal and work is quite different.

Men who have given careful study to brood-mare type are generally agreed that certain characteristics are common to most profitable brood mares. Of first consideration is character. Character is a term that covers all qualities peculiar to an animal. It is the combined effect of general appearance and disposition.

Teminivity is most important in a brood mare, but is indicated by the setting of the ears, expression of eyes, sbape of points are present, and the mare is portant in a profitable brood mare that should be sought for her value as a producer differs from the stallion in having a lighter head, neck, and fore quarters, but is indicated by the setting of the barrel. When the opposite of these points are present, and the mare is portant water, hot and cold, at the kitchen sink and at a wash bowl in the kitchen sink and

There was a time when our daily daily cleaning of lamps and interest, and makes and the carrying of and makes and the carrying of and makes and the carrying of the contest.

There are exertic lights throughout the artic in the

The Welfare of the Home

How I Made Life More Livable on the Farm.

from 25 to 30 gallons of water. In upstairs; cleaning and filling a number needed.
of lamps and lanterns; skimming and An e washing of many crocks of milk, and churning by hand.

It meant cleaning the linoleum on the washroom. the kitchen floor by getting down of chine by hand, sweeping and raising germ-laden dust with a broom.

In spring and summer it meant caring for many sitting hens, and then mothering little chicks in old boxes that let them get wet when it rained. Work was slow on bake day because

of a cold kitchen.

After years of work and planning, jams herself against doors and corners, threatening the life of the foal

break a limb, or in some way injure it. Her milk is poor in quality, or perhaps lacking in quantity. Often the injure it is necessary to be in the injure it. sink and at a wash bowl in the kitchen the work in about

atched in an incuand raised under

the

winter-time it meant carrying coal the house from cellar to attic, in the for three or four fires, some of them barn, and in all outbuildings where

An electric washing machine and Wringer does the work of the old hand Branch, at Indian Hopwer. Water and drains are defined by the state of the sta water and drains are also in speaking of the effect as windbreaks on he coptacle in the kitchen provides conference on Soil File the plactric iron. power.

A receptacle in the kitchen provides

connection for the electric iron. An electric cleaner attached to any ight socket in the house cleans without dust. Attachments come with it was that secure lowing dust from radiators and near Saskatoo cleaning draperies and scribed, where prings ter of furniture. A mop and ter belts had with wringer quickly cleans the than six to e bed

whole meal or bringing all true to the true. The soiled ed and arranged on wash as they are the table.

ire canner is one of niences. It does one-third to one It does any other method, ch time in a hot fire.

ummer often can ening meal, and me time as the lot of cooking

and convena life more ey make farm life more interestin and after tive for the young folk themselv uccess, in a house they settle so where for Father and more than

Plant Windbrea! Protector

Mr. Norman Ross, Ch of the Commission ter belts had nursery is



