This Department is for the use of our farm readers who want the advice ef an expert on any question regarding soll, seed, crops, etc. If your question is of sufficient general interest, it will be answered through this column. If stamped and addressed envelope is enclosed with your letter, a complete snewer will be mailed to you. Address Agronomist, care of Wilson Publishing Co., Ltd., 73 Adelaldo St. W., Toronto.

Save Farm Manures.

Animal manure is the only "universal fertilizer" to be had. Yet in some poorly favored countries manure must be used as a fuel, and in gets ready to use it as it should be the fertilizer industry. used.

Manure furnishes humus. It also supplies plant food. It both adds and stimulates bacterial life in the soil. For one or the other of these three stock men of Eastern Canada the reasons, or perhaps for all three, the necessity of making plans to have use of manure on land increases crop sufficient green forage crops availgrowth; and because the value of the able to fill their silos in case their ways greater than the cost of apply- as nappened last season. ing the manure, it is good business!

animal manure. Neither can manure, crop. the ones who very shortly will have no money with which to buy fertilizer. Good practice in conservation and application of manure goes hand in hand with sound practice in the use of fertilizer.

Let us take, for illustration, a practice all too common-that of allowing the manure pile to remain loose and open for weeks, even for months, before spreading. Just as well may the farmer set a torch to the pile, for just as surely will it be burned up and destroyed, with both organic of hay at this late season. matter and ammonia lost to the winds of the heavens. The value of the inable to improve his agriculture.

On the other hand, suppose the farmer practices the simple expedient of either applying the manure when fresh, as can be done in large sections of the country, or, if it must stored for any length of time, keep packed and moist, thus preventing destructive heating. The cost is very little. The saving in humus immense. The prevention of loss of ammonia is even still farmers practice condition, and in such shape as to hogs. make the best possible use of fertil- In using clover or oats and vet- for we should not have to do work children we are dealing with life and late in the season, for the vine growth izer. On the other hand, those farm- ches for silo it is best, if possible, to which we hate or do any work longers who waste manure use their run through cutting box and harvest er than our strength lasted-and fertilizer at a disadvantage, with loss before the corn, as the weight of the crossness is born of fatigue. We could alike to themselves and to all those corn on top will cause it to settle be good and gentle and, when night industries depending on agriculture properly and keep it in the best came, face without humiliation, the for their prosperity.

There are a number of ways in Farms Note.

Several years ago, while visiting

a large commercial poultry plant,

noted small roosts erected in the col

six and eight weeks old. The poul

young chicks to roost, although they

were hardly old enough to leave the

protection of the stove brooder. Since

After the chicks learn to roost, al

danger from overcrowding is over

Overcrowding causes colds, due to

the heating at night and the quick

chilling which follows when the

chicks ... out on the ground early

in the motning. After the chicks

them from mites and lice. Mites

brooder-house floor, and then they

are difficult to exterminate, but if

roosts are occasionally painted with

kerosene oil or other good disinfect-

If brooder chicks are not taught

to roost after they leave the protec-

tion of the artificial heat, they will

always crowd into the corners when

settling down for the night, and this

causes a devitalizing effect on the

the chicks are on roosts and

mites.

ly smother.

may easily become established in

tryman had started to teach

that it has many advantages.

ony houses for birds not more than

which fertilizer is supplementary to manure. It may be used to balance the plant food ration furnished by manure. It may be used to piece out is often quite a problem. A covthe inadequate supply of manure. In some sections of our own country fact, it may even be used to grow manure is burned instead of being those crops from which more manure spread on the land. But even in sec- is made or to replace manure by the tions where the value of manure is growing of green manuring crops. appreciated there are thousands of Before taking up these several points, farms where half or more of the however, let it be clearly understood available supply is unintentionally that the better the use made of man-"burned up" before the land-owner ure the greater the opportunity for

Vetches for Silage.

to save and use manure as a fertilizer, to discourage the raising of corn, as and when used the searing prevents Turn it upside down, slip on a hoop cries, but a change of position often house which has sewer gas in the To some fertilizer men it may seem corn is one of our most valuable for- bleeding. A sharp knife can be used. which is about an inch less in diam- makes it comfortable. Walking, pat- cellar? that manure is a competitor of fertil- age crops in many sections of Eastizer, but this is not the case. Manure ern Canada. Corn is also a crop that and fertilizer are two very different is very useful for the cleaning of our things. They are supplementary, but fields of weeds and putting the soil, not antagonistic. Fertilizer cannot on if cultivated properly, in the best most farms fulfill all the duties of shape possible for the succeeding

furnish all of the plant food needed But in Eastern Canada corn is very by the nation's crops. Furthermore, uncertain in certain sections on acwaste of manure is an economic loss. count of the late frosts in spring The chances are "dollars to dough- and early frost in autumn which prenuts" that in the long run those farm- vent its maturing sufficiently to make ers who allow manure to waste are the best silage. However, there are other crops that thrive and do very well in these districts and that make the best of silage when harvested at the proper time. One of these is our red clover plant, which makes very very dark for mothers. The darkest ing to fatigue me to such an extent the last of June for hay, the second of temper and irritation. silage is that it is very often difficult control, treat their children with un-istrength?" to dry it sufficiently to make the best due severity, nagging and scolding.

crease in crop which this might rate of two bushels of oats of a evil effects or to become morbid over kind of meat, and one kind of pie are been followed, but the fault was bring is lost, and to this extent the strong-growing stiff straw variety our shortcomings, nevertheless, such better than more kinds at one meal. with the methods and not the rich farmer is less prosperous and less such as, Storm King or Alaska, one days if they occur often do leave Clothes are promoters of self-soil. Meck of spring rye; and one-half ugly scars. bushel vetches per acre, cut in autumn The cry of the old Persian poet for Seing able to appear appropriatesigns of turning. This crop can be hearts: machine and raked and put into silo as soon as possible after cutting, as it will conserve better.

Station has been that there is more milk in clover, oats and vetches silage pound for pound than in immature who corn. Clover silage is much relished can by stock and has proven very useful remold the world nearer to our their soils alive, in good in conjunction with other feed for heart's desire. Then we should not

condition possible. - Experimental memory of the day which had pas-

foot above the floor, keeps the chicks from piling up, and allows air to circulate below the chicks that sleep on the frames.

wire-mesh-covered frames made

fit the corners, with an incline of

Not over three inches above the highest part of the wire-mesh incline

get the habit of roosting.

Don't Forget the Garden.

place roosts, and the chicks soon

then I have tried to teach our chicks to roost at an early age, and find Don't forget to include the home garden as one of your main lines of work the coming season. If you have not already made your plans for a garden do so at once. Select, fertilize, and prepare your ground as soon as possible. The seed supply should also be looked after and ordered at the earliest possible date, in learn to roost it is easier to protect order to prevent disappointments and delays in planting. See that the garden includes a good variety of vegetables, and also plant it so that it will continue to work for you and supply your table with fresh vegetables throughout the entire summer and fall. Too many gardens are ant it will practically eliminate the abandoned after the first crop vegetables is harvested in the sum-

## Desiroy Grasshoppers.

Winter wheat anl clover cannot be weaker members of the flock. We grown, with any success, in fields often think that little chicks are ra- overrun with grasshoppers. ther senseless in this matter of cannot give any quantity of milk if crowding, but they are simply fol- most of their food is devoured by lowing their natural instinct. From these pests. Bread is dependent on the time they were hatched they have grain, but grain is not plentiful of our bodies, whether our motives sequently getting themselves into can prosper when the farmer, the and mind. Law ever acts according It is not easy for a conscientious la small corner of their enclosure, foundation of prosperity, is nearly to law. To prevent such danger, I find that tor and it must be eliminated.

Timely Things About Stock

Army horses averaged \$230 each at an English sale not long ago. The highest price paid was \$408.

The cream separator with its many parts, requires daily washing and scalding to keep bad odors from de-

Clipping the horses when shedding begins means comfort to the horse and may prevent overheating with partment specialist. No system of resultant chills and colic.

Nothing keeps hogs well thrifty so cheaply as good, old-fashioned exercise. To bring that about ered and well-sheltered outside yard is fine. Roomy pens come next in the order of importance.

More milk sours during April and May than in hot weather, because this is the time, more than in summer, when dairymen do not realize the necessity of proper cooling milk. Ten gallons of spoiled milk cost more than a half ton of ice.

Foot and mouth disease broke out Use of Clover, Green Oats' and in England recently. This is the second time within six months that the We wish to impress upon the live disease has appeared there. Veterinarians and stock owners in Canada should keep a sharp watch for the

Docked lumbs sell highest. If dockincrease produced is practically al- corn srop is not up to the standard, ed when one week old lambs will not We do not for one moment wish often used for cutting off the tails, old bucket and remove the bottom, should not be picked up because it disease be injured by living in a less from the body.

of the day. Then they should be it.

placed in yard or stable until after Try a few beets, carrots, or any the evening milking is finished, when other root crop for the stock this they can again be turned to pasture for a few hours more.

Building Up Permanent Pastures.

Fertilizing pastures should be looked upon as a permanent investment, in a class with fences and buildings, rather than a reason for expecting full pay and a profit the season they are applied, says a defarming maintains fertility, once in a soil, as does grazing with beef cattle or sheep. There are many pastures which have been grazed continuously for about fifty years and to all appearances are better than

Lime, phosphates and stable manure are the materials which give the best and most lasting benefits. They are also the cheapest fertilizing substances. A liberal use of these at the start is advisable rather than small applications at frequent intervals. Scattering a little seed among weeds and brush is usually a waste of time and money. The results obtained are not at all comparable to those where a seed bed with fertilization has been prepared before seed-

Grain Bag Holder.

suffer from bleeding. Hot pincers are alone will welcome this. Take an the infant should be laid down; Cut between the joints one inch or eter than the largest end of the ting, rocking and bouncing an infant bucket, and fasten the bucket to the are undesirable procedures; they The grass taste in milk can be ceiling by two wires. Slip the mouth don't relieve pain and they further almost entirely prevented if the cows of the bag over the bucket and push tire the nervous system-the infant's, are allowed to graze for only a few the hoop down over it. This will hold the mother's and the neighbors'. hours daily during the first few the bag securely and the more grain Abundant sleep at regular hours and weeks they are turned to pasture. you pour in the tighter it will hold feeding are the infant's main busi-This should be during the early part it. When full raise the sack to loosen ness in life. Let there be reasonable deformity and loss of power.

## MOTHER-WISDOM

By Helen Johnson Keves.

as soon as beginning to show any finds an echo in our discouraged ly dressed; but unused garments in

And wreck this sorry scheme of things entire,

then remold it Nearer to the heart's desire?

That is what we all long to doany more be cross to our children, Mothers! In dealing with our should any nitrogen manure be added sed. It seems altogether right to desire a world in which we could be always gentle, always loveable and good, and influence-our children to

Yet we are not permitted to shat ter to bits the scheme of life and all that we can remold are our own habits. It is astonishing how many improvements we can make in those if, instead of accepting consequences and helplessly bewailing our faults we set about correcting our habits and thus changing consequences.

I have spoken of temper as being born of fatigue. That is true and at first thought the fact seems a terrible injustice, because usually our fatigue is created by the fulfilment of our duty-or at least what we consider our duty. "Why is it fair," cry our outraged hearts, "to punish us for working hard? Surely we deserve peace and refreshment, not fatigue?" Fatigue is illogical, for it makes us do evil as a result of having done good! It is destructive, for it humiliates us by breeding bursts of temper which cause us to injure and alienate our children.

Wait a minute! Are we always accountable to God. quite sure of the nobility of our motives in working too hard? Do we not, for instance, sometimes prepare a greater variety of food than is necessary, impelled-let us admit it-by vanity of our cooking? Do we not sometimes wear ourselves out with an unnecessary amount of sewing impelled by a desire to appear a little more industrious than our neighbors? As a matter of fact, excessive fatigue -fatigue which exhausts our nerves -is a violation of the laws of health and these laws go on operating inexorably, punishing us for the abuse

grasshopper is truly a limiting fac- mothers weigh the importance of the let us put the really living work conferred on the British Armies by various acts of housekeeping and first.

There are some days which are home-making, asking: "Are these go-

respect and every one is better off

a closet merely double labor, for they result in smaller fruit and less of it, cut with a binder or with a mowing O, Love, could you and I with Him must be made over before they are worn out. Dust, though certainly it is never

healthful or refined, is yet preferable Our experience at the Lennoxville Would we not shatter it to bits and in small quantities to temper in large responding amount of the other elequantities!

many labors to your day.

death, life and death of character. should be encouraged at the begin- Raised from the best stock by Dominion The pleasures of gluttony last only ning of the season before fruit begins for a moment; the pride of material possessions, except as these create the joyful spirit of home, is without value; the characters of our children are eternal.

We have brought our boys and girls into this earthly life which gives them their opportunity so to grow in strength and purity that they shall become worthy of Heaven. Shall we neglect them in order to lay up a little more money? Shall we deny them our companionship in order to have more pies for dinner? Shall we scour the darkest corner of every closet but allow to develop in our own hearts the germs of bad temper which drive our children from

The children who have not mothers who are comrades, and homes which kept tied up to the stake and in good they enjoy, are likely to drift into soil will grow to five or six feet in evil places when they pass through height. those stormy changes which carry them from childhood into maturity. Then, when it is too late, we mourn and, perhaps, pity ourselves, because our children have "gone wrong." It is not, after all, the bottomless misery of our own wounded love which matters; it is the loss of eternal life to the souls which we brought into the world and for whom we are

Our children need us at every age. Sometimes, it is true, they need most to have us let them alone, so that they can explore life and develop selfreliance; in order to know when such hours are at hand a mother must be in closest sympathy with her children's development, and when she stands aside they will be all the more conscious of her love and ready to come back to her confidence.

We cannot be perfect. Sometimes we shall be cross and sometimes we shall nag, but let it be as seldom as possible, for these things inflict a real injury. A part of the laundry always gone under the hen at night, where the 'hoppers abound. Improved are noble or not. The law has no re- can remain unironed while we refresh and after they get older they still varieties of farm produce taste just ward for what we thought was "self- our spirits and make ourselves comtry to keep it up. With the hen gone as good to these insects as do the sacrifice," but only chastisement for panionable for our children, whose they crawl under each other, con- common varieties. No community our disobedience to the laws of body souls are immortal.

housekeeper to seem to neglect her won in the field, and two V.C. bars. and the one underneath will probab- "eaten out of house and home." The In view of this fact, should not "work," but when we must choose, A total of 16,329 decorations were



Dr. Huber will answer all signed letters pertaining to Health. If-your question is of general interest it will be answered through these columns; if not, it will be answered personally if stamped, addressed envelope is enclosed. Dr. Huber will not prescribe for individual cases or make diagnosis Address Dr. John B. Huber, M.D., care of Wilson Publishing Co., 73 Adelaide St. West, Toronto

Details in Infant Feeding.

with bottle fed infants. brought up on the bottle, infinite attention to detail will bring the best arranged for the quantity, intervals and number of feedings we must consider other things: After each bottle fceding the in-

fant's mouth must be washed with boiled water or borie acid solution. There must be the regular daily bath by which the skin is made to function properly. A moderate amount of crying should be encouraged rather than suppressed; for thus are The farmer who sacks much grain the lungs developed. After feeding free play for arms and legs. The every-day marvels of its suroundings fer from such a condition, sewer gas are sufficient stimuli for the infant's being one of the most pervasive of brain development.

> When we think of nourishment we important element-oxygen, the very termine its presence or absence.

Growing Good Tomatoes.

palatable and nutritious silage. If of them all are those when tender- as to rob me of time and a compan- grow, and yet there are some years a big stove alone. He made a plank the first cut of clover is made about ness and love disappear under cloud ionable mind and an untired body to when we have had trouble with them, frame for the range to rest upon. devote to my children? If so, are and there are some things about Underneath the frame he fitted a rolcutting can be utilized very nicely Although motherhood is divine, they worth more than what I could their growth that makes for more ler crosswise, just a single roller. In for the silo, and another point in mothers are human! There are few give directly to my children out of certainty that are not as generally moving the range he simply placed favor of using the second cutting for if any who do not at times lose self-the same amount of time and known as might be. There is one fai- the device under it and balancing it lacy that has kept many from having upon the roller it was moved through A certain variety of food is neces- the best success, and that is that to- the yard upon the wagon over boards, Then how deep is the sorrow and how sary to health and must be prepared; matoes will not bear on rich soil. It and unloaded similarly. With this Oats and vetches can also be grown unfortunate are the results! For al- but beyond this point, variety is natural that such an idea should device one man can do more than four very successfully for silage; sow at though it is not wise to exaggerate ally hurtful. One kind of potato, one be formed when certain methods have men lifting at the corners.-W. E. F.

The fruit of tomatoes calls for an Stevens. Peterborough. Ont. abundance of phosphate and potash, and any lack of these elements will while an excess of nitrogen will produce a heavy vine growth. This does not indicate that the soil should not be rich in nitrogen, but that a corments should be provided also. For The laws of health do not care many crops, this would not be so eswhether the kitchen floor shines sential, but it is with tomatoes. Then white but they will set your nerves the use of fresh manure the same on edge if you have added one too year that the tomatoes are set will produce a very rank soft growth. Nor

There are several types of tomatoes and each has its advocates for home use. Earliana is a favorite with market gardeners. Chalk's Early Jewel ripens right up to the stem without any cracks. The Blue Stem Early or King Edward is about the finest early pink tomato and stands shipment remarkably well.

Staking and pruning will make the fruits better and earlier, but it is up to the grower to decide whether i will pay to do it. It takes lots of time and does not increase the yield | 10 days from date of invoice. very greatly. To do it, select two or three main canes and keep all the 'side branches cut out, not allowing them to grow beyond where one bunch of bloom sets. The canes are

Wooden Shins. They are remembering forests where

they grew. The midnight quiet and the giant dance;

And all the singing summers that they Are haunting still their altered circumstance.

Leaves they have lost, and robins in

Tug of the friendly earth denied to These, and the rooted certainties, and

To gain a watery girdle at the hips. Only the wind that follows ever aft, They greet not as a stranger on their

But this old friend, with whom they drank and laughed, Sits in the stern and talks of other

When they had held high bacchanalias

Or dreamed among the stars on some tall hill.

During the war 568 V.C.'s were Allied Powers.

breath of life. It is the combination Almost all breast fed infants give of oxygen with foodstuffs that make very little trouble; but it requires the body grow. We give the infant the greatest care to avoid trouble food at regular intervals, but of oxy-In those gen it must have a continuous, twencases (much rarer than is generally ty-four hour a day meal and that considered) where infants have to be every day. This means the child must ever have plenty of fresh air day and night. The infant must be taken results. After we have properly pre- into the open as early and as much pared and proportioned the food and as the season allows. In inclement weather the infant should at least once a day, be dressed as for going out doors, and all the windows of its nursery thrown open.

By attention to such details as these failure in infant's feeding is often turned into success.

Questions and Answers.

M. E .- 1-What is the difference between chronic arthritis and rheumatoid arthritis?

3-To whom should one go to find

out whether sewer gas really is present in the cellar?

Answer.—1—Chronic arthritis is any form of inflammation of the joint. Rheumatoid arthritis is chronic joint disease without wasting, and

2. Anybody would be likely to suf-

3. To your local health officer. He seldom take into account its most would make the proper tests to de-

Moving a Stove.

The tomato is not a hard crop to Here is how my neighbor moved

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