By Agronomist.

This Department is for the use of our farm readers who want the advice of an expert on any question regarding soil, 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 answer will be mailed to you. Address Agronomist, care of Wilson Publishing Co., Ltd., 73 Adelaide St. W. Toronto.

Making Work Count for the Most. Some farmers own a farm work on it. Others own a farm and manage it. The latter works just as much as the former, but in a different way. He works his head along with his hands. He doesn't get up at four o'clock in the morning just because that is the time all farmers are supposed to crawl out. He gets up because he knows that to keep things running smoothly he must be on the job. To get the most efficient labor from the men he employes he must not only direct them, telling them what to do and how to do it, but he also finds it necessary to work with them and take the lead in doing the work. This might not be feasible on large ranches or plantations where the help runs into the hundreds, but on farms like you and I know about it is a mighty good plan.

Plan your work ahead and then keep ahead of the work. If you can plan your farm work and direct your labor so as to get more done than the average, then you are the man who can afford to pay more than the average wages to your help. Good farm labor, of any kind, for that matter, is hard to get; but if you can pay a little more than the other fellow, you get the best help.

easier to do the work. A broken or hard-operating gate that is much used will waste a lot of time in the course of a day. An empty water tank when the teams come in at night, hot and tired, means that one or more of the men must spend con- at work on the plants. This may be siderable time on the pump handle, done by adding to every fifty gallons and all because someone forgot to of Bordeaux mixture a half pint of put the windmill in gear. It's not the big things that are forgotten, but the little ones that help the big ones spraying is not practiced, dust the pounds equals one pound of oil-meal;

day" jobs. If you can't remember and flowers of sulphur. shelling corn on a rainy day, even ture. when it rains.

As far as possible, the man-power | Keep the field in a sanitary condicould just as well save the cost of lime. by using them you have saved two to become diseased. men and two horses. Your overhead machine one man can handle. Many farmers saved labor last fall that direction.

Most farmers would say offhand

that a foal grows a little faster if

the mare and the foal run in the pas-

ture all summer. In practice, how-

ever, it is found that the foals of

work mares often outgrow those of

the idle mares. The work mare's foal

is given better care, and that is pro-

bably the secret, as the foal that runs

out all the time is apt to be neglected.

It usually gets no grain until about

weaning time or afterward, and it is

exposed to the daily torment of

foal is generally shut up in a partial-

be handy for suckling, the mare at

noon, and for the further reason of

keeping it from trying to break

The dark stall keeps the flies away.

At night the mare and foal are turn-

ed together in the pasture, where the

gets the necessary exercise. The work

mare's foal is also handy at the barn

three times a day when the other

horses are fed, and it naturally comes

her foal with the greater flow of milk

Doubtless the idle mare supplies

- ly darkened box stall by day, so as to

blood-sucking flies.

to reach the mare.

in for its share of oats.

mare's foal.

by harvesting corn with hogs. In this way they needed no help to pick the corn. And the method isn't wasteful, either. I have tried it, and I defy anyone to find an ear of corn left in the field after hogging down.

Headwork is just as necessary to the man who operates a farm as it is to the man who sits at a desk and runs a railroad. You must map out your line of work, and then gather about you help that will efficiently carry out your plans.

Control Tomato Diseases.

A knowledge of precautionary measures to avoid crop diseases is highly important to tomato growers. Tomatoes are subject to many diseases any one of which may be sufficiently serious to ruin the entire crop, or at least to preclude the possibility of making a profit on the seasen's work.

from disease, if possible.

Choose a seedbed soil not previously used for growing tomatoes or related crops; or, better still, a soil sterilized with steam or formalin.

Spray plants in the seedbed and in the field with a good fungicide, such as Bordeaux mixture. Apply thoroughly about every ten days. For spraying in the seedbed use the 3-4-Try and make everything handy 50 Bordeaux formula, increasing the sulting in a heavier consumption of about the farm so as to make it strength to 4-4-30 or 5-5-50 for field feed and more rapid gains than from spraying. The stronger field con- any other ration. All of the cereal centration is preferable only in con- grains such as wheat, rye, barley, trolling early blight or rust. Spray- and particularly corn, are low in proing in the field may not be necessary | tein and give better results when fed during periods of drought.

.Keep in check the various insects skim-milk. Black Leaf "40" and one pound of zinc arsenite or lead arsenate. plants with a mixture of tobacco

Always have in mind some-"rainy- dust, zinc arsenite or lead arsenaté, bean-meal.

field when the sun is shining. Making heavy application of stable manure. when soybean-meal is worth \$2 sible by seeing that odd jobs are done manure or compost containing old to- cents a hundred. mato vines.

machinery. A gang plow and six move all rotted fruit and sickly horses and one driver will do just as plants and destroy them by burning much in a day as two sulkies with or burying. If buried, they should be three horses and a driver each. You covered with a disinfectant, such as farmer is more likely to be success-

that one man. Two two-row cultiva- Practice crop rotation. The less clearly how weeds gain an entrance tors will efficiently cover as much often tomatoes follow tomatoes or re- on to the farm in the first instance ground as four one-row machines, and lated crops, the less likely is the crop and how those already there spread

is reduced in proportion to the size cautions will not guarantee a crop the farm or be dispersed over a widfree from disease, it will go far in er area in one of the following ways:

> limit of production. We keep horses for the work they do. We know the horses that do the farm work can also reproduce, and thus replace themselves and supply a surplus of horse-power for sale. If one farmer manages it successfully, so can an-

> We will eventually weed out the mares and the families of mares that prove to be shy breeders when subjected to the constant and strenuous exercise which farm work imposes. We will discard one by one the mares which habitually lose their foals because of hard work during preg-

Farmers will gradually learn On the other hand, the work mare's the limitations of safety in working in-foal mares. But the absolute economy in working brood mares. and the profit from breeding work mares, will certainly bring the horsebreeding business in Canada to this through barbed-wire fences in trying practical and satisfactory basis, and selection will eliminate the mares that do not fit the system.

Do not let ewes and lambs run on youngster runs and plays, and thus old pastures so full of parasites which will prove destructive to young

> CHEERFUL CHERUB My real self must be an ageless imp -

but the practical outcome is that her foal frequently does not grow so fast as the theoretically iess favored work When I looked in the glass Let us work the mares and feed and saw youth fled the foals. It is not nature's way, but It laughed from my we are not doing things according to the undisturbed natural procedure eyes maliciously: when we farm high-priced land to the Id hate to be old

like you,"

GM'CAM

it said.

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Pive Rules for Shearing Sheep. Use hand-driven clippers. The oldstyle shears are slow and it is hard to learn to use them properly. Driven clippers are cheap, and any one owning sheep can well afford to buy such a machine. Often several farmers

combine to buy a machine. Choose a warm, sunny day for the shearing. Drive the sheep into small enclosure adjoining the shearing floor where they can be caught easily. Have the shearing floor clean; remove each animal to it as soon as

Commence shearing at the head and shear back. Hold the clipper bar

the price of wool.

firmly into regulation wool sacks. areas of inflamed skin. The trouble asis, ringworm, barber's itch, scabies Use the best seed obtainable; free but buyers prefer wool packed in but more especially in the skin folds, shows powdery, canary-colored, cup-



For pig feeding nothing combines with corn to give more satisfactory results than skim-milk. This combination makes a palatable ration, rewith some nitrogenous feed such as

When used as a supplement to corn and other cereal grains nine pounds of skim-milk is equivalent to one pound of tankage; 3.7 pounds is equi-If valent to one pound of middlings; 9.3 10.7 pounds equals one pound of soy-

When tankage is worth \$2 a hunthem, put them down in a book. An Where plants are likely to suffer dred skim-milk is worth twenty-two hour spent in tightening up or re- by drought some means for irrigat- cents a hundred; when tankage is pairing a machine may save a ten- ing should be provided. If this is worth \$4 a hundred, skim-milk is hour day if it breaks down in the impracticable, plant and cultivate in worth forty-four cents a hundred. field. An inside job of grinding or the best way to conserve soil mois- When middlings are worth \$1 a hundred, skim-milk is worth twentythough the feeder isn't quite empty, Nitrate of soda is preferable to seven cents a hundred; when oil-meal might be the means of keeping other forms of nitrogen (ammonia) is worth \$2 a hundred, skim-milk is everything going full blast in the for fertilizing tomatoes. Avoid a worth twenty-one cents a hundred; hay when the sun shines is only pos- Do not use potassium chloride, nor hundred, skim-milk is worth nineteen a pig or calf you should see that they

When cereal grains are worth \$1 If not, their sense of justice is liable a hundred pounds, skim-milk is worth to be greatly stirred and what might you employ should be cut down by tion. Examine it regularly and re- twenty-eight cents a hundred pounds. have been an inducement to hold them to the farm becomes a club to drive

How Weeds Are Spread.

In his struggle against weeds a ful in his efforts if he understands from one part of the farm to an-While the observance of these pre- other. Weeds may gain entrance to

> As impurities in the seed sown. Most samples of agricultural seeds contain weed seeds in greater or less amount, which are sown with the useful seeds and-thus the weeds may quite unknown to the farmer, gain an entrance on to his land. The seed sown should be absolutely free from weeds of all kinds-a condition of things which is seldom realized.

By the agency of threshing ma-The threshing machine should be thoroughly cleaned before it is allowed to begin operations on

In stable manure, and feeding stuffs. Hay and feeding stuffs eften contain weed seeds, some of which are liable to find their way into the manure heap and eventually on to the land. Some seeds can pass through the bodies of animals and afterwards germinate.

By the action of the wind. Many seeds, such as those of dandelion and thistle, are furnished with a tuft of hairs which enables them to float in the air for long distances. In other cases the seeds or even the whole plant may be blown over the frozen surface of the snow.

By the agency of animals. The seeds, or those parts of plants which contain the seeds, as in the case of Blue Burr and Burdock, are provided with hooks by means of which they become attached to the wool of sheep or the clothing of workers on the farm and in this way may be carried into fields where formerly they did not exist.

By cultivation. In some plants, especially those with creeping underground stems, such as quack grass. the broken pieces may be carried all over the field by farm implements and thus dispersed over a much wider area than the parent plants originally occupied.

Boars should be kept thrifty during the summer, but should not be allowed to fatten.

What would you think of a man who refused to join the local cowtesting association because it would make it impossible for him to sell his poor cows to his neighbors?

# By John B. Huber, AMMD

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

I am asked to write about eczema or salt rheum or scald or tetter. This close to the body so that there will is a skin inflammation, in which be no double cuts in the wool. Sheep there is redness, discharge or matter should be held firmly, for they will "weeping" or scaling, crusting, thicktear the fleece apart if they are al- ening and swelling of the skin; and lowed to struggle when partly shorn. always itching, perhaps slight, but After each fleece has been removed, generally intense. A skin trouble take off all manure, tags, and wet that does not itch is not eczema. Ecwool, and sack these separately. Tie zema is not catching and when comthe fleece into a neat bundle with the pletely healed it leaves no scar; exflesh or inner side out. Use paper cept when the scratching has been by attacks of this disease. twine for tying. Binder twine should so severe-with dirty nails, perhaps never be used, for strands of it will -as to care a break or ulcer in the get into the wool and can not be re- true ckin. All kinds of eruptions apmoved. They will not take dye and pear in eczema-just redness and will therefore cause a severe cut in heat, burning, tingling and irritation or blisters, papules (pinhead sized) The tied fleece should be tramped or pustules (pus blisters). Or large pelas, the shingles, the hives, psori-These are large and hard to handle, may appear in any part of the bodythe armpits or the bend of the elbow, shaped crusts and a mouse-like (in front), or of the back of the knee, smell). Further information on this or the creases in the neck. The papular form appears mostly on the trunk; companied with a stamped and selfthe pustular mostly on the head, face directed envelope. and neck of the poorly or improperly nourished infants. Aduits and elderly people are more prone to "red eczema" where there is extensive tion be avoided after the discovery of crusting (generally in the legs), appendicitis? which crust, when it comes off, exposes a most painful, raw, oozing red operation. In some cases that has surface. Then there is fissured ec- got to be done during the acute atzema, cracks resulting at the knuckle tack. Where, in the judgment of the points, the mouth corners and the family physician, operation is post-

Shall know the force of angered

I'll rush-to kingdom-come on sight

I'll kill with club or poison blight.

The cabbage pest and all the rest

And now I trow this solemn vow

Will busy me from morn till night.

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The tater-bug and melon thug

might;

them from it.

In most cases there is a predisposition, which makes the skin very susceptible to the action of external irritants, such as heat or cold, excessive use of water, strong soaps, dyes or chemicals. Or there is a favoring condition of the constitution, such as poor or injudicious nutrition, digestive or nervous disturbances, exhaustion, or a tendency to gout or rheumatism. We cannot say that eczema is hereditary; but the children of eczematous parents certainly come easily

There are hundreds of skin, diseases of which the two most frequent are eczema and syphilis. Eczema invariably itches; syphilis almost never does. Other skin troubles that may be mistaken for eczema are erysiand favus (a scalp trouble that subject will be mailed on request ac-

Questions and Answers. Question-How long can an opera-

Answer-It is - best not to avoid finger tips; this is frequent among | poned, it had better be done between those whose business requires them attacks. A diseased appendix is just to be in intense artificial heat or to like so much dynamite ready to ex have their hands constantly in water, plode on the slightest provocation, and from using strong soans and lye. and sometimes with fatal results.

Fence-jumping cows are often the 'I'll swat the fly of bulging eye, From early morn till late at night; result of poor pasture. Look after I'll boldly bat the robber rat, the pasture instead of the cows. And hold the work a great delight. The Hunnish mouse and chicken louse

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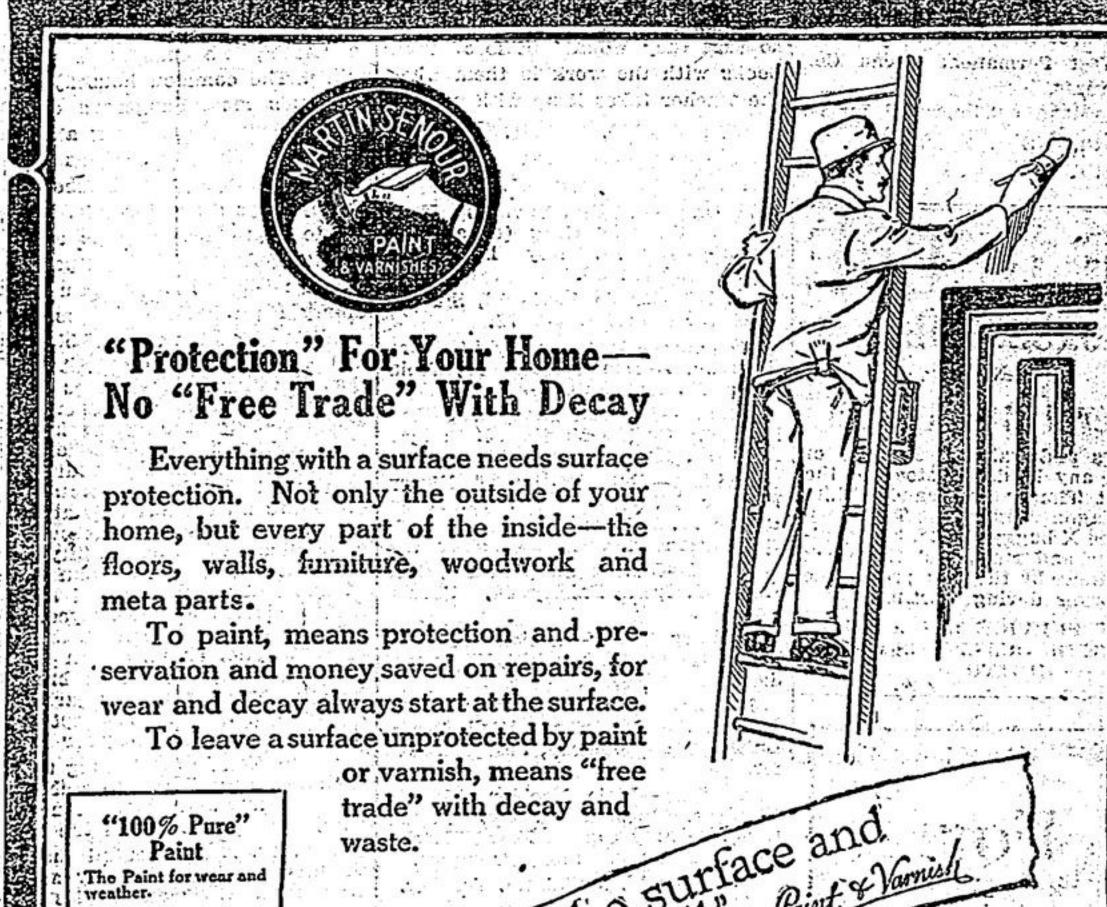
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