This Department is for the use of our farm readers who want the advice of 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 Enswer will be mailed to you. Address Agronomist, care of Wilson Publishina Co., Ltd., 73 Adelaide St. W., Toronto.

Crops for Dairy l'arms.

The milk producer must not forget that he is a farmer as well as a dairyman, and plan to bring every acre of his farm under a remanerative system of crop production. Possibilities of increasing profits along this line depend upon the amount of study and thought that is put into the work. So long as one is satisfied with a yield of six tons of silage corn, thirty bushels of oats and one ton of hay to the acre the cost of his supply of feed will eat largely into the profits of the business. In the first place, a proper erop rotation must be selected and such a choice of crops, and methods of growing them, made as shall tend to place every acre of the farm in a productive crop, and give suitable time. variety for feeding.

In planning crop rotations it is safer to avoid growing crops doubtful value that do not fit well into a fixed rotation. A few stanefficient and simple rotation. Some dairy farmers grow catch crops for soiling purposes, but the better way is to carry over silage for summer feeding and depend upon such field crops as oats, peas, green corn and alfalfa for soiling. If we can get the soil favorable for the growth of clover, alfalfa, corn and small grain crops, it is about all we can do toward producing a balanced ration for of supply.

for a dairy farm. Some dairy farm- better clover, alfalfa, corn; small ers omit timothy and practice a grain and grasses. three-year rotation, which is all right This brings up another question. ens the sed and furnishes more humcase the clover fails:

duce milk at a minimum cost and and enable them to produce a maximaintain the breeding stock and mum flow of milk. young cattle in condition to breed On breeding farms where cows are regularly and command good prices. fed for advanced registry records it Whether one should grow the wheat is desirable to grow root crops, such crop or oats and peas in the rotation as mangels, carrots and sugar beets, garget. is a debatable question. It depends to furnish succulence and variety to is working and how far one has to prize these crops highly because they haul the wheat to market. The cut- act as a stimulant to the cow's diting and harvesting of hay crops has gestive system and make it possible a great deal to do with the feeding for her to consume more grain feed value. We may cut our clover, al- than is the case when her ration confalfa or timothy too soon or too late | tains too much dry matter. A small to secure maximum feeding value. plot of ground will suffice to produce One of the advantages of seeding all the roots needed for feeding for timothy with clover is that of pro- advanced registry records, and save perly curing the mixed hay. There trouble and expense of buying roots is less trouble in cutting, curing and to feed when needed.

handling the clover crop if it contains one-fifth timothy.

land is fortunate, although it is possible to establish pasture by seeding with a variety of good grasses that to stand. She has quit chewing her will yield feed throughout the season. Such a pasture will require several years to become well established. The weeds and undesirable growths must be kept down and! grass seeds sown on wet and thin run out in spots, lime and acid phos- foot way back." phate thoroughly disked into the

soil, will encourage some of the desirable grasses to make a good stand. It is usually cheaper and better to seed the grasses several times left side; that side of her udder is than to apply all of the seed at one red and swollen."

clover will. Lime, drainage and rupted Frank. "None of the other humus will overcome most of the cows has it." troubles and put the land in good "That's hard to say," was the 'redard crops properly handled will shape for alfalfa. With a few acres ply. "It might have come from prove more satisfactory than too of alfalfa on his farm the dairy blow on the udder, or maybe you wide a variety. Clover, alfalfa, farmer has made a long step for skipped a milking. Careless milking

about for new crops to take their when her udder was distended, or places in the rations and the crop from exposure to wet, cold weather, rotations. There is as much differ- or a sudden change from a bulky, ence in the quality and value of laxative ration to a more concentrahome-grown foods as in the feeds of ted one. Keeping a cow too fat may commerce, and it should be his aim to grow, harvest and feed these crops in the best condition. The crops should be grown on the farm the usual amount. Give her about dairy cattle and building up the soil to produce a class of feed to balance a pound of epsom salts. Get some up the ration are the very ones needed to build soil fertility. By growing, corn, wheat, clover, short, we must provide some kind of or clover and timothy mixed, a four- succulent food, reduce protein costs year rotation, and seeding a part of and increase the fertility of the soil. the farm with alfalfa, we have a If we are to build up the soil and nearly ideal system of crop growing improve the rations we must grow

if they have a field of alfalfa to de- Our home-grown feeds are too bulky pend on in case the clover fails; but to produce the best results. There as a general proposition it pays to is a limit to the capacity of an aniallow the land to remain in grass mal to digest and assimilate bulky two years. Clover is a more active feeds. If we choke the machine we soil builder, but the timothy thick- cut down its capacity. To reach the maximum digestive and assimilative us. And, after all, one is on the safe capacity of the cows they must be side when he has fa few acres of furnished with proper quantities of mixed meadow to depend upon in fats, carbohydrates and protein and in about the proper proportions. The In harvesting and feeding these excessive amount of dry matter concrops a large part of the corn crop tained in all the standard feed crops should go into the silo and be fed renders it impossible without the use out along with the clover or alfalfa of protein concentrates, like cottonhay. Such a roughage ration, sup-seed meal, linseed oil meal and gluplemented with reasonable quantities ten feeds, to reach the digestive and of purchased concentrates, will pro- assimilative capacity of the cows

upon the conditions under which one the rations. Experienced feeders

Gradually poultry breeding is beevery buyer of a cockerel to be used passed. in the breeding yard will insist on knowing the sire and dam of the cockerel before he buys the bird. The buyer will also-want to know how many eggs the dam of the cockerel produced, and how many eggs were produced by the dam of the sire of

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the cockerel he is buying. Right now many buyers -- some of them farmers, too-are demanding to know what's lie in the field exposed to wind, rain back of the birds they contemplate and snow and remain exposed to these purchasing before laying down any conditions until they are again recoming more like live stock breeding. money. The day of the scrub roos-It will not be many years until ter in the farm flock has just about

Fixing Up Earth-Roads. It can be truthfully said that drain- for the junk pile. age is the chief essential in putting earth roads into proper condition. An old Scotchman, an expert road build- new binder would cover the cost of a er, aptly said that the three require- building large enough to protect and ments of good earth roads are drain- prolong the life of all necessary workage, more drainage, and still more ing equipment for the farm. Doing drainage. The roads must not only without that shed looks like saving have good surface drainage but must money, but it certainly does not save also have good under-drainage. Sur- implements. Implements' cost good face drainage is secured by proper money. Implements and tools desgrading, adequate side ditches, and troyed through lack of care is equivaby keeping the crown of the road lent to destroying money. Commence properly dragged. Stretches of road to save or save more. Build a shed under-drained by tile.

rain, if the best results are to be secured. Don't go on the road while too muddy, let it dry out slightly; it; should be wet enough, however, so it will not crumble, but smear. When fore a magistrate to seek advice. properly used, the drag brings a thin "Sor," he said, "I kapes hens in layer of earth toward the centre of my cellar, but th' wather pipes is the road which is rolled and packed bust an' me hens is all drowned." between the wet periods. If too much "Sorry I can't do anything for

Getting the earth roads graded, ditches open, well-drained, and prop- peared. erly crowned by dragging is about "Well, what now? What did the all that can be done until the people water company tell you?" queried are ready to surface the road with the magistrate. gravel, broken stone or some other "They told me, yer honor," was surfacing material.

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Curing a Cow by Wire. was cranking his car to go to the country, when his wife appeared at the door and called: "Telephone!"

The breeder who has good pasture "I've got a sick cow," said Frank Jensen when the veterinarian ans wered the call. "She's 'most too weak cud, breathes hard and seems to have a high fever. Can't you come out?" "Notice anything wrong when she

walks?" asked the veterinarian. "She walks with a straddling gait; and is stiff in her hindquarters. spots. Where the seeding is thin and When she stands she puts her left

"How does the milk look?"

"Yellowish blue in color and strin gy. It curdles soon after it is drawn She doesn't give much out of the

"From the symptoms you give the Alfalfa helps out wonderfully in cow has garget," said the veterinbalancing up the rations. It will arian. "You can treat it yourself." succeed almost anywhere that red "But where'd she get it?" inter-

will cause it. It might have come One should strive to improve the from the cow lying with her udder standard feed crops before he looks on a cold floor, or from hurrying her cause it."

"What shall I do for her?" "Reduce the grain to one-third nitrate of potassium and a small graduated measure from your drug gist and give a half ounce of the nitrate in the drinking water twice

"Shall I do anything to the ud-

"Milk it carefully and bathe with hot water several times a day. Rub it with olive oil containing three per cent. gum camphor several times daily. Do not use any strong-liniment on the udder; and avoid any of the possible causes of the troublecold floors, etc."

"I almost forgot to ask about using the milk," said Frank. "Don't use it. Milk the left half of the udder into a separate pail and bury the milk. The right side pro bably is not affected. Generally not more than half of the udder is af

fected at one time. Disinfect the barn with coal-tar disinfectants, so the infection won't spread to the other cows." week later Frank's cow was

again doing her share of work at the milk pail. Except for Frank's careful observation which caught the trouble in time and for the veterinarian's help, the trouble might have developed into a case of chronic

## When Saving Becomes a Loss

Many farmers throughout the country are not erecting necessary buildings because price of lumber and shingles has advanced.

In every section of the country in late fall and early winter implements are left in the field where they were last used. This refers to plows, harrows, seeders, binders, mowers and other agricultural implements. They quired for use. The hardwood used in the manufacture of wooden parts soon shows the result of this mistreatment, as also the iron parts in a lesser degree, and in a few years these. implements are eligible candidates

Comes a time these implements must be replaced, and the price of one that do not dry out quickly must be for the implements. Do not make it necessary to have the junk man call The drag must be used after each on you too frequently. It does not pay.

#### Good Advice.

An Irishman presented himself becrown is secured by dragging, the you," said the magistrate; "you had angle of the drag should be reversed. better apply to the water company." A few days later Pat again ap-

the reply, "to keep ducks."

# 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 enveloper is en closed. Dr. Huber will not prescribe for Individual cases or make diagnosis Doctor Taylor, the veterinarian, Address Dr. John B. Huber, M.D., care of Wilson Publishing Co., 73 Adelaide St. West, Toronto

Sore Throat.

Besides the throat (pharynx) the cus, is expelled. mouth is swollen. Such a sufferer been cured. should be treated as for acute bronchitis-rest in bed, a hot mustard foot bath, a purge, an ice bag to the throat, small pieces of ice dissolved! on the tongue. Local applications mer-toe. That is, the tip of my within the throat and such medicines great toe is spread out too much in as aconite, quinine and sodium sali- proportion to the other parts of my cylate must be prescribed by the toe. Is there any way of correcting family doctor.

Chronic sore throat (chronic phagerous trades. Many such cases are may be able to relieve the trouble. part and parcel of catarrh of the Is the sugar treatment for tuberupper air passages, from the nostrils culosis beneficial to any appreciable down to the bronchial tubes; and extent? Would any harmful results when the latter are reached we speak follow its use? of bronchitis. There is hoarseness, Answer-Although the treatment eign body in the throat; and thick, culosis.

Sprays for Tomatoes.

Experienced tomato growers recommend the use of Bordeaux mixture in about the same manner as used for the potato crop, that is, the first application when the plants are a few inches high and continued at ifrequent intervals during the grow-Ingesoasones - A A A A A A

This treatment is not always successful in controlling point rot, especially when weather conditions are dry and unfavorable for maturing the crop. Bordeaux applied after the development of the disease would be of doubtful efficiency and would sure have the right bait."

tenacious, maybe blood-stained mu-

soft palate, tonsils and vocal chords | People prone to the diseases and are generally included in any inflam- constitutional conditions mentioned mation. When this is acute, the should especially guard against the cause lies generally in exposure to development of sore throat. The procold and wet, especially in weak folk, per use of the voice, saline laxatives those of sedentary habits or who when necessary (say a teaspoonful have a tendency to tuberculosis, gout of epsom salts in a tumblerful of or rheumatism or other systemic water piping hot on rising), tonics diseases. And there is septic sore or other medication, with local apthroat, of germ origin. Such a suf- plications, by the physician, with ferer has pain on swallowing, a ser- treatment of the underlying factor sation of dryness or as if a foreign (rheumatism, tuberculosis or other body were stuck in the throat, ter- disease) are the right measures. derness, hoarseness and oftentimes Where nasal catarrh exists no cure impairment of the senses of taste, can be hoped for until that organ is smell and hearing. The pharynx is attended to. And many a case of reddened beyond the natural and chronic pharyngitis gets well of itangry looking; and the back of the self as soon as the nasal catarrh has

#### Questions and Answers.

I have what I think is called ham-

Answer-Hammer toe is the doubryngeal catarrh) may follow a ne- ling up of the toe by reason of glected acute Pharyngitis, or be due contraction of certain sinews. Slight to continual and excessive straining cases give little trouble but someof the voice (Clergymen's sore times the toe feels as though it were throat), to the influence of such con- being twisted painfully, its full stitutional disease as I have mention- length, no matter what shoe is worn. ed or to the constant inhalation of The toe, however, is not generally irritant vapors, as in certain dan- sore to the touch. A good surgeon

the voice is easily fatigued and may would do no harm, I am myself be entirely lost; there is hacking skeptical as to its efficacy. I am cough with pain or swallowing. Here mailing you further information reagain there is a sensation of a for- garding the treatment of tuber-

> prove objectionable on account of the sediment left on the ripe fruit.

> > Fisherman's Luck.

A minister, with two lovely girls, stood entranced by the beauties of a flowing stream. A fisherman happening by, and mistaking the minister's occupation, said: "Ketchin' many, pard?"

"I am a fisher of men," answered the preacher with dignity.

"Well," replied the fisherman, with an admiring glance at the girls, "you

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