By Agronomist.

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

ly in seed-bed preparation especially

a mulch or blanket of soil to check

evaporation of moisture. It is also

few days after sowing corn and after

temperature in the soil, to destroy

small weeds and encourage germina-

tion of weed seeds and to restore the

Seeding .- This operation is now

done by means of seed drills. Several

types are on the market but the single

Where implements are to be pur-

my own and adjoining communities

in a more intensive way, and have

averaged a nice addition to the income

from the staple farm crops which I

"The plan followed in growing the

fruit. By planning for such of the

canning crops as will best work in

with a decreased number of standard

farm crops, I can intensify my efforts

"For example, strawberries, beans,

and corn grown for the cannery may

crops; and asparagus, cane fruits, and

tomatoes may break better in regard

"I feel sure that there_are many

general farmers who will read this

who might with advantage contract to

grow a few acres of some of the can-

ning crops I have mentioned by join-

crop to realize several hundred, or

try is one of the important ways of

supply in addition to the regular har-

crops under contract.

and in some seasons double my farm

disc drill is probably most popular.

essential mulch.

a useful implement in the corn field

Cultural Methods for Eastern Canada. | too, may be employed advantageous-

Soil management or cultivation in its several phases is a very important factor in crop production. On the Central Experimental Farm, Ottawa, and several of the branch Experimental Stations in eastern Canada, methods have been investigated for several years. The results obtained have warranted the following recommendations being made as applicable to average conditions on eastern Canada farms.

Cultural Operations and Implements.-Ploughing is the basic cultural operation. It is therefore important and should be performed with care and judgment. No definite rule can be laid down as to the best me- to the field after seeding. It may be trees. Bands of tar, tanglefoot, or spray should be made immediately need of sleep. thod of ploughing. A safe rule, however, is to plough only when the soil even then should be followed by the in time, will catch many of the pests. sprays should control the measuring- terrible affliction. What would one is in shape, not too wet especially if drag harrow to break the smooth sur- The best sticky substance to use is worms very effectively. of a heavy clay nature. Plough deep- face. The chief use of the roller, ly in autumn, as deep as the surface however, should be to firm and productive soil will allow turning an crumble the soil before seeding. It up-standing furrow. Plough. shal- should not be used on very damp soil, low in spring, turning a low-lying especially clay; let the surface dry or flat furrow. Plough well, turn first then use the roller to break the all the land and finish with straight crust. even furrows and lands. Let the ploughing be a credit to the farmer, chased it should be borne in mind that a reflection of his character, a stan-larger implements requiring from three to six horses handled by one dard for other operations and an inteamster provide a means of solving centive to less thorough, though willing workers to do better.

to some extent the present manual Harrowing .- Of the several imple- labor problem. Besides, the work ments on the market for performing done in this way is accomplished this work the disc harrow is the most economically and thus tends to keep suitable for preparing soil for seed down the cost of production of crops. after it has been ploughed. Thorough | Ploughing may be speeded up by cultivation at this time is indispens- using two-furrow ploughs. Double able and the disc harrow should be disc harrows make a thorough seedused until the surface of the ceed- bed in the least time. The horse disc bed is smooth and friable and the soil seed drill is efficient. More sections! immediately below is firm and solid. | added to the drag harrow reduce the

The drag or spike-tooth harrow, time required for this work.

A hoary-headed poultry theory

that thunder spoils the hatchability of

timers as soon as we commenced keep-

ing chickens, but our own experience

proves that it is largely a superstiti-

We got this idea from old-

Barley As Hog Feed.

about this crop because of the scarcity of mature corn for feeding hogs this mercial hog feeds are so costly.

with the barley and other feeds.

Spray The Orchard.

When the leaves begin to grow the

tree tanglefoot, as it will stay sticky longer than the other substances. These sticky mixtures may be applied to the bark of the tree, but they may disfigure the trees for several years. It may be necessary to renew the Barley will supply grain for hogs bands from time to time with the sooner than any other crop. A large sticky material, especially if the tannumber of farmers have been asking gle foot becomes hard or stiff or covered over with the bodies of dead moths. The use of bands is especial- | St. West, Toronto. spring and summer, and because com- ly recommended on very large roughbarked elm or hackberry trees that it Barley is about equal to corn, pound would be difficult and expensive to for pound for feeding hogs. But spray. Maples and oaks are not so to produce sleep; it may do other while corn does not need to be ground badly attacked by the pest. The ap- things, too; but if it causes sleep for pigs, barley should. The grains ple, elm, and plum age the favorite it is a hypnotic. are too small and hard to be masticat- food plants of the canker or measurfollowing the disc or roller to restore ed and digested readily when whole. ing-worms. When the injury from and will also produce bad and un-While the pigs may not like the barley these insects in severe, the trees may desirable effects, like depressant acvery well at first, they will soon be- appear during May or June as if a tion of the heart. come accustomed to it. But they will fire had swept over them. They may Such drugs are dangerous, and do better if ground barley is mixed be entirely stripped of their leaves by particularly so when taken by the adthe corn is up to stimulate a rise in half and half with middlings or some the worms. For small shade and vice of a well-meaning, but inadeother palatable hog feed. Cains are fruit trees any of the arsenical sprays quately informed friend. more rapid, too, when some high pro- will kill the canker-worms casily if ap- It is always best to have the ac tein feed like tankage is fed along plied about the time the leaves begin vice of an intelligent physician beto appear. The regular summer fore experimenting with such danger- hypnotics, and as little harmful as any sprays applied in the apple orchard ous tools. for the control of the codling-moth and Even physicians are not infallible curculio will also kill the canker- in such matters and have been known

worms. The first summer spray in to overlook heart weakness or heart why it was not more generally used. Rolling .- The roller is too fre- canker-worms may commence to move the apple orchard should be applied injury or underestimate its importance quently used to rut a finishing touch up on the trunks of fruit and other just before the bloom, and the second in their desire to relieve one who is in we have, but very dangerous, must so used to advantage on light soils but printer's ink, if put on the tree trunks after the blooms fall. These two Want of sleep, or insomnia, is

CORN FOR GRAIN

ern Canada, has not received the at- give an equally large yield of grain tention that it merits. At the pre- with a larger tonnage of stalks. These sent crisis of food supply it is the crop varieties should be grown principally that can be increased without disturb- in southern Ontario although they maing the system of rotation or cutting ture perfectly in certain portions of down the acreage of any other cereal. Eastern Ontario and Quebec. Earlier We do not increase production if we varieties than Quebec Yellow No. 28 cut down the acreage of one kind of do not return a commensurate yield grain to grow another. By growing for labor expended. flint corn we can increase the total output of cereals without alteration or detriment to our system of farming. Utilization

without an equal, for cattle, hogs or neighborhood festivity. poultry. In the unground or cracked state it

furnished the stimulus needed to help is valuable in a ration for laying hens. me out of my own rut. Now, in On the cob if used judiciously it can place of confining my efforts to two be profitably given to working horses. or three staple crops which formerly The immature and small ears can be produced only a meager, living, I grow fed without waste in the autumn to

limited areas of several canning crops fattening hogs. It can be "hogged" down in the field with profit. An acre or two of corn will fatten the hogs on an average farm. This method can be adopted with profit by the Ontario farmer in canning crops is to contract with the these days of labor scarcity.

manager of the canning factory to grow a definite acreage of some of the roughage for dry cows or young catstaple canning crops, such as peas, tle. beans, tomatoes, sweet corn, and small

come in Canada an important factor profit likewise improving the tilth and in the human diet. Many bushels of wheat could be released for shipment if we would use the various appetizreceipts over my old style of farming. converted.

Range of Profitable Production The crop should only be grown where it will mature in an average a possible source of supply. season. Using the proper variety, of those in the northerly counties, state that maturity is not the factor

Quebec Yellow No. 28 is the variety main as they now are, corn for grain the third time that he seeks to impress sonal favor is out of the question. No part of the area indicated. It is a crops that can be grown on a form

Flint corn, as a grain crop in east- fellow and Salzer's North Dakota wil

for grain is but little greater than cyamus, lettuce and hops. that of growing for silage, husking is The soothing effect of a hop pillow a cure for it, or must it run its

Who Should Grow It

The dairyman who disposes of his milk to the local creamery is the man who can most profitably grow and use grain corn. If he is using silage, at the present price of shelled corn he can afford to decrease his acreage of silo corn in order that he may grow flint for grinding.

The farmer who wishes to increase the output of grain yet does not wish to break his system of rotation. By growing flint corn he is producing The dry stalks make excellent grain from his hoed crop.

The man who is without a silo, and wishes to increase his hoed crop. He Last, but not least, corn can be- can grow corn for grain purposes with

> Owing to the disastrous failure of States and Canada, seed is extremely with his county representative as to

Wherever flint corn has been grown

that prohibits the growing of corn, growing this crop and failing to ob- countenance. And he took again the my left hand is not mine to give . the Secretary of Agriculture for Que- tain seed this season should plan to twelve-That is, fell back from his ad- . . . for them for whom it hath bec making a similar report for that secure it early in the autumn for an- vanced position and resumed his place been prepared-Not personal influence corn, mills feeds and live stock re- Began to tell them the things that mined by the service rendered. So.

cleanliness of his fields. ing foods into which corn meal can be the seed corn crop in the United

Conclusion

part of the area indicated. It is a crops that can be grown on a farm. ahead of him, but they seem not to 42. Jesus called them to him-Such short stalked variety giving a high Any farmer so situated that he can comprehend, so unwilling were they a display of selfish ambition must yield of grain, and maturing in the mature flint corn will find it profitable, to entertain any thought of disaster have intensely grieved him. They average season on well drained soils to plant a few acres even though he to their Messiah and to the kingdom who are accounted to rule over the attempt growing other crops known enables the growers of the canning in a hundred and fifteen days. Where has to cut down correspondingly his he was to establish. the season is sufficiently long, Long- acreage of silo corn.

GOOD HEALTH QUESTION BOX

By Andrew F. Currier, M.D.

Dr. Currier 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. Currier will not prescribe for individual cases or make diagnosis. Address Dr. Andrew F. Currier, care of Wilson Publishing Co., 73 Adelaids

Hypnotics.

A hypnotic is a drug which is given

Some hypnotics will produce sleep

not give for sleep when suffering pain, hour after hour? When one is sleep- thetic preparations, many of them, at ing, physical pain does not exist, for least, are of German origin and are there must be consiciousness in order; now tremendously expensive and hard to appreciate pain.

Sleep is more refreshing than food; you can live without food a long time, able, for we were being swamped with many days, but not without sleep.

The discovery of hypnotics was blessed thing for those who suffer, and the new ones are, in many respects, at compelled to be the exclusive users of least, better than the old ones.

By the new ones, I mean those which modern chemistry, by analysis and synthesis, has given us in great numbers, sometimes embarrassingly so, and which also are greatly abused. tagious? 2. Can it occur more than The work involved in growing corn cohol, opium, Indian hemp, hyos- be caught by simply going where there

Its value lies in its feeding adapt- the additional item but this task can or a hop poultice, used to be known (in course? be done at the most convenient time in the country, at any rate), as a first As meal in a fattening ration it is the autumn and made an evening of class remedy, but we seldom hear of contagious. 2. It is possible, through it, or use it, now.

tuce is familiar, and the quieting ef- be taken to alleviate the cough. fect of hyoscyamus, or henbane, was know of nothing which will stop the once highly esteemed.

passes off, it causes deep sleep, as hygiene and diet.

every drunkard knows, until the organs have become so saturated with . it that sleep may be replaced by delirium tremens.

Opium was formerly used by many physicians, not only to induce quiet and freedom from pain, but sleep as well; now it's comparatively little given for that purpose. I am happy to say.

The most important of the new hypnotics are the bromides, paraldehyde, chloral, the coal-tar derivatives, and the synthetic preparations. The bromides are often very efficient as

powerful drugs I know of. Paraldehyde is a relatively safe hypnotic and I have often wondered Chloral is one of the best hypnotics be taken in larger and larger doses,

and sometimes forms a habit which ends fatally. The coal tar derivatives and the syn-

I am very glad they are not availthem, they were producing very bad habits, and I earnestly hope that for all future time the Germans will be their own medicines.

QUESTIONS AND ANSWERS

M. E .- 1. Is whooping-cough con-Among the old hypnotics, are al- once in the same person? 8. Can it is a person who has it? 4: Is there

Answer-1. Yes. It is extremely not a common occurrence. 3. Yes. 4. Drowsiness from the free use of let- There are sedative drugs which may disease after it has once started. The After the exciting effect of alcohol best plan is careful attention to

INTERNATIONAL LESSON MAY 12.

Lesson VI. Jesus Faces The Cross-Mark 10. 32-52. Golden Text, Phil. 2. 8.

Verse 32. On the way, going up to Jerusalem-Moving steadily along, ye able to drink the cup . . talking as they went. That it was "up" scarce. Each farmer should consult to the holy city, may be remembered, to indicate a man's portion in life and when we consider that Jerusalem the overwhelming power of calamity. stood nearly four thousand feet above! the level of the Jordan valley. Jesus hardly to suppose that this indicates was going before: and they were they had an adequate idea of the cost ings or broke window lights. Even to cultural and harvesting require- corn can be grown in practically all there can generally be found a few amazed . . . afraid-It is Mark of drinking the cup and undergoing then we have found that the embryo ments for my neighbor. But many the older parts of Ontario, the East- men who have developed early productual alone who notices the position of such a baptism. It is rather an inern Townships and many counties tive strains out of old varieties. Not Jesus and the mental perturbation of considerate and superficial answer. the fullest and best use of a consid- north of the St. Lawrence in Quebec, having made a practice of disposing the disciples. It seems that it was The cup that I drink ye shall drinkalso many districts in the Maritime of it for seed, these men are occa- unusual for Jesus to go ahead of the He administers no rebuke for their der theory any more, yet we try to an to plan and systematize our work, avoid all sudden jars or shocks direct as was necessary to do when we took to the arm as well as was necessary to do when we took to the arm as well as was necessary to do when we took to the arm as well as was necessary to do when we took to the arm as well as was necessary to do when we took to the arm as well as was necessary to do when we took to the arm as well as was necessary to do when we took to the then arm as well a which awed them. A crisis was im- ings in the pathway of their apostleminent. His anticipation of the seri- ship.

Any person who is desirous of our conflict made itself known in his 40. To sit on my right hand or on

the inevitable issue, but marched people become their servants. Gentiles-To him the approaching through service rendered. death was not an accidental tragedy, 45. The Son of man came not to be but an event which clearly lay in his ministered unto, but to ministerpathway as a part of his Messianic Even the Son of man is not exempt program. It was not an incident, but from this rule. He is the Head of a necessary part of his work. These humanity and yet he is the servant of were bitter words to the disciples. The all. To give his life a ransom for thought that he was to die and was to many - His death is the supreme serbe delivered to the Gentiles instead of vice for humanity. He gave his life leading them to victory over the "na- not merely in behalf of many but intions" must have thrown them into stead of many. Here we have before utter confusion.

34 Mock "Crucify him," says freed from bondage. Matthew. Put him to death, like the meanest and most abandoned criminal. After three days he shall rise again-Here is a prophecy which makes this utterance a revelation. Foresight might suggest that to go into the very midst of his enemies would mean disaster and death, but to affirm that he would rise from the dead at a stated. time lifts this prediction above com- lians in this war." mon foresight into divine knowledge.

35. We would that thou shouldest' do for us whatsoever we shall ask-Certainly a large request and in anything but a modest spirit. This is a very painful episode. At a time when their hearts should have been deeply ing which awaited their Master they fighting.

were thinking about securing the best places in his kingdom. 37. Grant that we may sit, one on

thy right hand, and one on thy left hand—The positions of honor, next to the throne itself, the right hand having the post of precedence. In thy glory-The glory of the Messianio King. 38. Ye know not what ye ask-They

were to learn the difference between standing first and being first, and thatthere is a vast difference between appointment and achievement. They were also to learn that it is suffering, not honor which marks the first place in the high roll of the kingdom. Are

be baptized-Figurative expressions 39. They said, We are able—We are

other year. As long as the price of with them in ordinary conversation. but fitness, and that fitness is deter-

Gentiles-That is, those who seem to 33. The Son of man shall be deliver- rule. He would show them that men ed unto the chief priests and the rule by force, by heredity, by choice. scribes-He saw clearly that there by flattery, by intrigue, but that few was no avoiding the clutches of his possess the real qualities of leaderenemies. He did not seek to evade ship. They lord it over them, and the

directly toward his goal, caring not | 43. But it is not so among youfor himself but for these trustful dis- In the Kingdom the leaders instead of ciples to whom he was to hand over being lords become servants and the the great work he had inaugurated very highest become bond servant of and who were pitiably ignorant of the all. The essential principle of the great meaning of it all. Condemn him kingdom of God is to achieve greatto death . . deliver him unto the ness-not through preferment, but

us the profound truth of the vicarious spit upon . _ . - sacrifice of Christ. His life becomes kill-The climax of the "lutron" or price by which men are

Put It There.

A fine story comes from the front relating to King George's recent visit. Seeing a slightly wounded Australian at the railway station the King walked up to him and said:

"I've often heard about you Austra-

The Australian, holding out his hand, responded: "Put it there!" The King shook his hand warmly and appeared immensely pleased to be taken as an "equal."

This incident is symbolical of the touched by the thought of the suffer- democracy for which the Allies are

The state of the s

ous myth. We have had many hatches that could not have been better, in spite of violent electrical disturbance of the elements. Quite often severe thunderstorms

have come up at the time supposed to be most dangerous to the success of the hatch-just a few days before the eggs were due to start pippingyet the number of chicks that came oct of the shells appeared quite nor-

mal, and the chicks were strong and We have also had good hatches in spite of blasting or other such shocks, best combine with my regular farm except when the vibrations were so near or severe that they leveled build-

chicks are not always killed, or even of us are finding that we did not make While we take no stock in the thunerable part of our time until we beto the egg, as well as rough handling on the growing of several canning

in shipment. The success of hatches

is almost always in direct proportion

to the care given the eggs when the

fertility is strong. Tin Can Swells Income.

"Farming in a rut," says my neigh- ing with several neighbors to deliver bor, who was in a rut and now re- co-operatively their produce to the joices in being out of it, "is getting factory, even if some distance away, so firmly settled in a treadmill rou- with a motor truck. Such a plan_of tine of growing certain crops as to delivery our neighborhood has found make it seem well-nigh impossible to to be a great economizer of time, and to give better profits."

A leaf from his personal experience even a thousand, dollars more from a In breaking away from the old-time small area of land that will not be grain-hay farming system I believe missed for the regular farming operawill inspire some others to do likewise tions. Moreover, the building up of to their profit and satisfaction. Here a great canning industry, in this counis his story:

"The establishing of several vege- bringing the Kaiser to his knees-by table and fruit canning factories in making sure of a great reserve food

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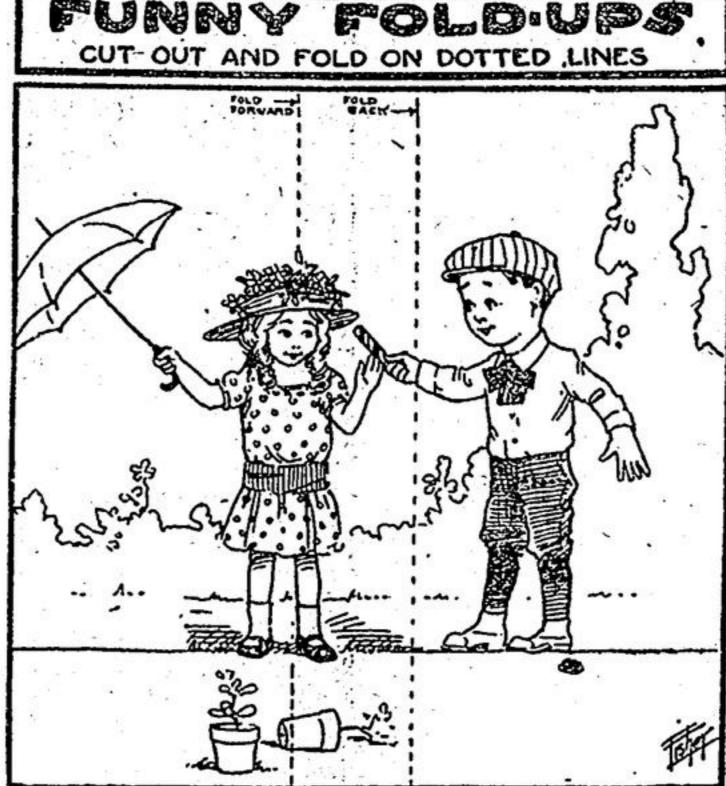
FEATHERS SMOKE TUCKETTS

VETERINARY SUPPLY HOUSE 750 Cooper Street, Ottawa, Oat.

vested products."-W.G. Message to Farmers. Hon. T. /A. Crerar, Minister of Agriculture, has sent out the follow-

ing message to Canadian farmers, asking them in order to avert a famine to plant every possible acre in wheat: "Let me again draw the attention of the farmers of Canada to the great need there is of planting every acre of land in wheat that seems favorable to growing it. The news that comes daily of that awful, grim struggle now being fought in France and Flanders brings home to us clearly and unmistakably this fact—that, after almost four years' war, human liberty is still in the balance. The call for men is urgent, and they must, to the full limit of our power, be sent. Their places at home must be taken by those who remain. Despite the difficulties, we must produce more food than we have ever done before. Set apart all your land fit for growing crops and plant as much wheat as you can. Plan to bring as much new land on your farm under cultivation as possible, and thus increase your acreage for next year. It will be needed

then just as much as now."



"You ought to see me walk the wire." Said Will, "it's leads of fun; Just let me take that parasol,

And I'll show you how it's done."