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## Conducted by Professor Henry G. Bell.

The object of this department is to piace at the service of our farm readers the advice of an acknowledged authority on all subjects pertaining to soils and

Address all questions to Professor Henry G. Bell, In care of The Wilson Publishing Company, Limited, Torento, and answers will appear in this column in the erder in which they are received. As space is limited It is advisable where immediate reply is necessary that s stamped and addressed envelope be enclosed with the

Question-A.F.:-I have a five-acre will get better results than you would less wheat need be used. field with good natural drainage, otherwise. which I want to get into alfalfa next In order to still further insure a keeper's kitchen flour bin, is in three year. It was well manured two years catch, I would advise drilling in 200 forms: white flour, whole wheat flour, ago, and sowed to wheat; not seeded to 300 lbs. of fertilizer per acre, as and graham flour. The white is

Shows a good stand of beans. The is seeded to clover on the north half, cludes all constituents except the bran.

the same as was the lime and worked lege. into the soil by a light harrowing just | Question-W.F.:-I have three acres previous to the time the grain and of land which I plowed up last spring . alfalfa seed is sown. This fertilizer being old sod with some June grass, infancy the use of bread crumbs in child is retarded in growth, and such inches in width. should carry from 2 to 4% ammonia and put it into barley. Could I work cookery was antique. Undoubtedly a serious case of malnutrition may and from 8 to 12% available phos- it good now and sow part of it to the ancient Romans used them; cer- result that the child may die.

fertility, having been covered with growth of sweet clover for pasturage realizing that bread crumbs may be nutrition may not be secured withduced a good crop of corn this year. crop as it grows in the Eastern half broad left over from the table from prices of food to-day, there is no ad-I want to get this field seeded to clover, no clover having been grown on it pressed with its usefulness as a pastrimmings of crusts, or from dry rolls. Of the oven and pulverize. Of the oven and pulverize of this continent and have not been importance breather the oven and pulverize. Of the oven and pulverize of the oven and pulverize. Of the oven and pulverize of the oven and pulverize. Of the oven and pulverize of the oven and th you advise sowing the clover to in- On sandy soils where there is a course no bread should be used for the young child of the family. sure a catch? Would you inoculate desire to increase the organic matter this after it has begun to mould. After the seed? I have clover chaff from rapidly, sweet clover can be grown pulverizing, seal the crumbs in jars about 25 loads of clover seed. Could and plowed under to good effect.

disking and harrowing. In sowing a and will continue to give good pas- per cent. of the flour ordinarily used supplemented by the use of butter and mixture of clover and timothy, you turage as long as you prevent the is saved. But if the wheat flour em- skim milk in the preparation of food can profitably use 10 lbs. of clover and grain from coming into head. 4 lbs. of alsike to the acre, as well as As soon as the snow begins to go elastic property of wheat flours) Every housekeeper knows the in-5 or 6 lbs. of timothy seed. Make sure off in the spring, I would advise you then something less than 50 per cent. finite variety of foods that may be that you get good vital seed. That is, to sow 10 lbs. per acre of common red of crumbs must be used. Any wo- prepared with milk; creamed vegehave your seed purchased by early clover seed on the rye and wheat man with a taste for experimentation tables of every kind; creamed gravies, spring. Count out a couple of hun- ground. The alternating thaws and will be willing to try out different pro- using all kinds of meat, poultry, fish and dred seed as an average sample. frosts will work this seed into the portions until she learns just how game. Creamed sauces used as a basis Place these between two damp blot- ground and the young clover will come much of other products she can use in of vegetable soups and cheese dishes. but not soaked. Place them on a and to make a substantial backing to spongy, elastic loaf which the family peculiar value of the milk, along with out she counted them: "One, two, new broom. As it was raining, all of intense interest had caught his counted them: "One, two, new broom. As it was raining, all of intense interest had caught his counted them: "One, two, new broom. I was a substantial backing to spongy, elastic loaf which the family peculiar value of the milk, along with out she counted them: "One, two, new broom. As it was raining, all of intense interest had caught his counted them: "One, two, new broom. I was a substantial backing to spongy the local backing to spongy the substantial backing to substantial backing source of warmth. In a week or ten If you wish to seed your ground to a Many who have tried this declare tables or meats, the mineral matter, believe it!" she cried. days the seed should have sprouted mixture that you want to stand for that the result is nearly identical with flavor and energy, and in most of the But there they were, seven downy sufficiently to ascertain the percent of two or three years, I would advise you regular whole wheat bread, differing cases enough of the protein, or tissue balls!

question, when the enswer will be mailed direct.

soil needs lime. Will you kindly tell and the south part is in corn this year. The graham keeps everything, even me the best way to start the alfalfa, I wish to use the whole field for cow the bran. In all, of course, there is

dressing of ground limestone at the plow this part of the field and as soon wheat flours other starchy cereals or building the red blood corpuseles. Apply the necessary mineral with a clean piece of rate of at least a ton per acre. Work as the soil will work in the spring, sow this into the soil by disking and harthe following mixture:—one bushel you increase the starch proportion of the modification of milk will improve the diet for the child. This until the stains disappear.

Wheat flours other starchy cereals or wheat flours other starchy cereals or building the red blood corpuscles. Apply the oil with a clean piece of with a very small pillow or none at large flours other starchy cereals or building the red blood corpuscles. Apply the oil with a clean piece of with a very small pillow or none at large flours other starchy cereals or building the red blood corpuscles. Apply the oil with a clean piece of with a very small pillow or none at large flours other starchy cereals or building the red blood corpuscles. Apply the oil with a clean piece of with a very small pillow or none at large flours other starchy cereals or building the red blood corpuscles. Apply the oil with a clean piece of with a very small pillow or none at large flours other starchy cereals or building the red blood corpuscles. Apply the oil with a clean piece of with a very small pillow or none at large flours other starchy cereals or building the red blood corpuscles. Apply the oil with a clean piece of with a very small pillow or none at large flours. The corpusch of the c a bushel to a bushel and a half of barley as a nurse crop at the same time
seeding with 20 to 25 pounds of good
alfalfa seed per acre. In order to insure a good catch of alfalfa I would
sure a advise the addition of 200 to 300 six weeks. Avoid pasturing too stituting some other ingredient for part of your wheat flour, for upon it the absolutely essential stimulant for the absolute the absolute essential stimulant for the absolute essential stimulant essential essential essential essential essential essential es fertilizer distributing attachment. If results on many farms in Ontario and with the recipe makers. This is not, the fertilizer can be broadcasted in tests at Ontario Agricultural Col- "brown crumb bread."

Agricultural College, Guelph, and ob- red clover and 4 lbs. of alsike per acre scientious housekeeper seeking econ- make cottage cheese. But also save you stay away a big black Towser- borney bush tain a culture for clover seed from as recommended above. Cut the omy should not scorn such a the whey from the cottage cheese for Cat will hurt you; and perhaps he berry bush. This bottle of material con- wheat as soon as it is ripe so as to source of experimentation. For, it should be used in bread making and will eat you up. When I say, 'Quack! tains the pure line of bacterial life give the grass and clover mixture an always cooked in a storeotyped wile always cooked wile always cooked in a storeotyped wile always cooked in a storeotyped wile always cooked in a storeotyped wile always cooked wile always co that lives on the roots of the clover opportunity to make a good subthat lives on the roots of the clover opportunity to make a good subof thumb way practicing control of the milk of the house, but is very simple, and is given in detail

## THE CONSERVATION OF FOOD

An Article Dealing With Two Subjects of Vast Importance in the Present Crisis, Namely, the Saving of Wheat Flour and the Problem of Milk Supply.

By Abby L. Marlatt, Specialist in Scientific Home Management. miasm with which the only when it happened to suit her bread-makers (and bread-winners) of the hotelkeeper always has to make the country are attacking the problem both ends meet. He knows. of conserving wheat flour is shown by the appearance of new recipes for different types of bread designed to

All these recipes fall into general classes determined by what has been

planted this spring without fertilizer. Question—B.K.:—I have a field that tude of grades. The whole wheat in-

The Use of Bread Crumbs

and from 8 to 12% available phosphoric acid. It would be well also to sweet clover this fall for pasture next tainly every housewife to-day knows and sow part of it to the ancient romans used them, compared to the pressing need is to encourage the long that bread crumbs have their useful.

It is for these reasons that to-day and New Zealand.

It is for these reasons that to-day and New Zealand.

Count is known as the Count of St. phoric acid. It would be well also to have 1 or 2% potash, if it is obtain—

The phoric acid. It would be well also to have 1 or 2% potash, if it is obtain—

The phoric acid. It would be well also to sweet clover this fall for pasture next tainly every nousewise to-day have 1 or 2% potash, if it is obtain—

The phoric acid. It would be well also to sweet clover this fall for pasture next tainly every nousewise to-day have 1 or 2% potash, if it is obtain—

The pricial residence of the large and level and dry would vou added to make a jelly-like juice over the pricial residence of the large and level and dry would vou added to make a jelly-like juice over the pricial residence of the large and level and dry would vou added to make a jelly-like juice over the pricial residence of the large and level and dry would vou added to make a jelly-like juice over the pricial residence of the large and level and dry would vou added to make a jelly-like juice over the pricial residence of the large and level and dry would vou added to make a jelly-like juice over the pricial residence of the large and level and dry would vou added to make a jelly-like juice over the pricial residence of the large and level and dry would vou added to make a jelly-like juice over the pricial residence of the large and level and dry would vou added to make a jelly-like juice over the pricial residence of the large and level and dry would vou added to make a jelly-like juice over the pricial residence of the large and level and dry would vou added to make a jelly-like juice over the pricial residence of the large and large summer? It is first class clay loam nice and level and dry. Would you addishes, for puddings, for meat stuff-dairy herds and the measure of their dairy herds and the measure of the measure of their dairy herds and the measure of th

into which moisture and spores of may be increased through the use of board down, then the other, holding force the back of the book. about 25 loads of clover seed. Could and plowed under to good effect.

this be used to inoculate by spreading If you wish next summer's pasmould cannot penetrate. The method may be increased through the use of the leaves in one hand while you open on the field after it is plowed and ture for temporary purposes only,— of utilizing the crumbs is practically the green leaves of such plants as a few leaves at the back, then a few worked in the soil with a harrow? that is, for the one summer,—I would uniform. The bread sponge is made spinach, beet and turnip tops, dandeat the front, and so on, alternately pastures when the dew is on the grass. Answer:—After the corn has been advise you to work the ground as you t Work this in with a careful growth, it will be ready for pasturing into a dough. Some declare that 50 sources. This growth stimulant is the best results. Open the volume litter every day in the year. ployed is low in gluten (that tough, used at the table.

good strong seed. If only 75% of to work it as you recommend this fall, only in its darker color and its sweet building, for adequate growth.

Milk is a Most Valuable Food One never speaks of milk without thinking of the child, and in any dis-

deeply. As soon as the soil is dry enough to work next spring, apply a draws in the form of iron to sid in kind of material without injuring if

Question—H.H.:—I have an eightacre field which I want to sow to oats

acre field which I want to sow to oats

acre field which I want to sow to oats

And at the present time of the pre and meats. And at the present time ity to safeguard the health and nutriliam III. to the year 1837, in the reign of with plant of rich milk roared and yelled, but they either roared and yelled, but they either Brown in the oven and pulverize. Of than to continue to supply milk for

Variety of Milk Dishes

Keep the blotters medium damp along so as to fill up the bare spaces her wheat bread and still attain the Croquettes and souffles will give the Ducky-Daddle. When they hatched Daddle had to go to market to buy a sonny" (turning to me, whose look property of intense interest, had caught this

I would advise inoculating the seed acre; also sow timothy seed at the this type of "crumb" broad extensive the preparation the preparation the preparation the preparation the preparation to bushed as an essential part in the preparation them how to hunt under the grass for seeding about 25%. but not by mixing it with clover chaff. rate of 6 or 8 lbs. to the acre. As this type of "crumb" bread extensive- tion of the quick bread, cakes and worms. Write to Prof. D. H. Jones of the Bac- soon as the winter snows begin to go been most anthusingtic. And the some sauces. Where the amount left But before they left the house she teriological Department of Ontario off, sow a mixture of 6 lbs. of common been most enthusiastic. And the conover is sufficient, it may be used to cautioned them: "Keep close to me. If ing for worms, when Sammy saw home in your own kitchen out of the



ly will be published with each question and its a summer hotel, writes a contributor. sation, but full name and address must be while I, a small boy of ten or so, mailed direct if stamped and addressed envelope is enclosed Address all correspondence for this department to Mrs. Helen Law. 23 Woodbine Ava., Toronte.

Mrs. T .: -1. To remove spots from still resides at the squat and ugl cussion of voluntary saving of foods your suit, mix a little cornstarch into edifice of St. James's, and levees and during the present crisis, the rights a paste with gasoline, rub this on the drawing rooms continue to be held substituted for wheat, or by what last analysis, the future of any nation brush out with a whiskbroom and you The name of St. James appears in made it possible for me to offer myself grain or cereal or vegetable has been is determined by the care which it towill find that unless the stains are connection with the present edifice beto a girl with whom I was despervery stubborn they have disappeared. cause a hospital for lepers was occu- ately in love, but of whose love for me Nature has stated, in no uncertain Keep away from any fire while doing pied on the site before 1190 under de- I was miserably in doubt—when she terms, that milk is the essential food this. 2 A good freckle and sunburn dication to St. James the Less. In came into the store one night with a of infants and the young child. All lotion is 1 ounce of hydrogen peroxide, 1532 Henry VIII. took over the pro- look of terror on her face. Her litexperiments to-day prove that we have 1 ounce rosewater, and 2 ounces witch- perty from its monastic possessors, the brother had been taken suddenly wheat ground and refined into a multiwheat ground and refined into a multiattempt to substitute other foods for 3 A dry well continued along the buildings and erected ill, her father was out of town, the attempt to substitute other foods for 3. A dry, well-ventilated place, such as the palace, of which Hans Holbein is doctor dare not leave the child, they this essential in the diet of the child. an attic, furnishes a good storage said to have been the designer. While kept no servant, there were no tele-Not that milk is an ideal food. It is, place for onions in winter, as slight little of the old Tudor palace surviv- phones in those days, and she had also when and how to lime the soil? pasture next year. What can I sow on variation dependent upon the manu
Ordered to start the aliana, I wish to use the whole held for the child that we have.

Ordered to start the aliana, I wish to use the whole held for the bran. In all, of course, there is ideal food for the child that we have.

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Ordered to start the aliana, I wish to use the whole held to start the bran. In all, of course, the branch that the however, the nearest approach to an freezing does not injure them, pro- ed the fire in 1809 the chimney piece come alone from a suburb across the Given alone it is not satisfactory en. To keep well, onions must initials H. A. as a reminder that at the

Milk and cereals are very satisfac-Rheumatism is another very common come behind the back, and keep it I knew that I had made a mistake in the absolutely essential stimulant for moist towel covered with mackintosh cles. "Shoulder braces" are not re- "The ferry was a mile away and I As a stimulant to growth, milk, cream is also useful. If varicose R.B.:—A good plain abundant dincatch her, but there would be nothing along with the yolk of egg, stands at veins are present bathe in cold water ner, promptly served, is more popular to substitute for the poisonous mess the head of the list. Both of these twice daily and apply an elastic band- with the threshers than a fancy one. had given her. I looked at the clock; contain fat soluble substance. If age or a cotton flannel bandage, cut The day before they are to come, bake in fifteen minutes the ferry would

of Victoria. In that year the Queen gravy is liked along with mashed pota- didn't hear or wouldn't heed me, and and all the rest of the royal family toes, sliced onions and tomatoes. went steadily on. Then I swam for moved to Buckingham Palace, so far Green corn, in season, is always liked, it. I knew that I would be too late, as concerns board and lodging, mere while cole-slaw or boiled cabbage but somehow I had to keep going.

How to Open a Book.

violently or carelessly in any one place feeling of terror as I have never since Hold the book with its back on a and you will likely break the back experienced! smooth or covered table; let the front and cause a start in the leaves. Never

Young pigs should not run in heavy ing back to the house. The doctor and in the spring apply a ton to a ton and winter wheat this fall. As soon yeast and flour. Then the pulverized as it should be. Older people can get this the center of the volume. Do this but how about the summertime? We drug-store chap, or his ghost! If you two or three times and you will obtain make our hens dig in the scratch shed are the real article, you'd better get a

Stories In her seven frightened children.

And at supper they ate all bread and milk, and even as

The Seven Ducky-Daddles.

behind the gooseberry bush.

Though the chief of the curreds did "Keep close to me. I see Towser- They all pushed the door as hard legs, thighs and breast.

"If you eat a great deal, you will thank God, the baby has turned the soon be so big that Towser-Cat will corner and will get well without any not dare to chase you," she said to of your help or hindrance!"

bread and milk, and even asked for he-who in spite of his rage was as

tables or mosts the risk when I came to, sonny, I was into her rubbers and then put on lying in my wet clothes on the parlor

the seed germinates strong, increase and seed it to a light sowing of winof the crumbs.

Amanda and her seven nttle Duckyyou see Towser-Cat run in quick and baby." One by one she kissed them good-bye crying over me and choking back her Amanda and her seven little Ducky- and said, "Stay near the house, and if sobs so as not to wake the sleeping

Then she took her umbrella and

Ducky-Daddles were hunting for their rubbers were so heavy that they as follows by Dr. Robt. Barnes, Chief

worms, Amanda saw something furry could hardly run and Towser-Cat soon of the Meat and Canned Foods Divicaught up with them. Before the sion, Health of Animals Branch, Dethem kindly disposed. Worse "Quack!" she called loudly, seven young Ducky-Daddles could partment of Agriculture, Ottawa:looking—Through lack of sufficient or and all of the Ducky-Daddles hurried shut the doro, his big black paw was Clean and cut up the chicken; sort

"Hold the door tight and I will pull fleshy portions in a gem jar or other He, therefore, persuaded their over- And of course they all stayed close the gooseberry net over him!" cried "Look out for his claws!" Ezra call- of salt and one-eighth teaspoonful of permanently. Steward—A subordinthe seven little Ducky-Daddles. She tangled up the seven set up a shout; that comes from the balance of the

There is not rauch hope for the man who is all the time shifting from one breed to another. Get a good one and stick to it like a dog to a root. You stick to it like a dog to a root. You have not been wasted.

Although your choicest young cleamness. Education of the facelity of faces upward so that a person standing on it can read his own weight.

The dial of a new bathroom scale faces upward so that a person standing on it can read his own weight.

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The dial of a new bathroom scale faces upward so that a person standing on it can read his own weight.

Ducky-Daddles. into the house, where he helped his When they returned there was no expose the gem jars to a sudde brothers bolt the door. Towser-Cat. He had scurried up the change of temperature. Also, after

ON DUTY

My grandfather was swapping tales with a fellow boarder on the porch of dangled my legs from its railing and

"One of the worst shocks I ever had came when I was twenty-four years old," he said, "I'd been working my way up in a drug store since I was

When the first cook stove was in its these are omitted from the diet, the on the bias about two and one-half pies and brown bread, then heat the start; the prescription, although pow-

side and ran on again with such a

"I met the doctor coming out of the

new job! I knew the minute I smelled your bottle that you'd blundered, but,

"Well, man though I was, I simply And at supper they ate all of their went down in a heap at his feet; and sofa, and your dear grandmother was

out the fleshy portions, such as the

used in the first jar. If there is not nough liquid to fill the second jar add water. Place in boiler as above and boil as follows: For pint jars, one

part. In all cases take care not to the jars have cooled off, exam

Improper feeding impairing diges-

breathing. Give teaspoonful castor oil; knead the crop. If this fails to give relief

the male that crows, "talks," fights consisting of nine parts of rolled bar- in the proper manner; (3) the food a very general magning and dripk might have been killed. The two terms may be used here with. They all rushed for the house, but "I've lost my rubbers!" called the male that crows, "talks," fights consisting of nine parts of nine pa "sings" and lays—are birds that enjoy pounds of skim-milk to one pound of all ceremonial considerations; but it good health; from such can be expect—the barley. This method of feeding must be remembered that by the later must be remembered that by the later men of Babylonia. Thus fidelity and ers; but he scrambled up and hyrried pond after their rubbers.



Too many breeders are so anxious tion, or too much dry feed will cause to get returns that they breed young hens to become crop bound, which is sows before they are developed. The

attained her growth before farrowing. The best cross to produce pigs for bacon is one between pure-bred boars Lesson XI. The Benefits of Total Abthe "unclean" food was withdrawn had to go to town to buy rubbers for over Towser-Cat; when he was all inch of overflowing with the liquid plainly, crossing of breeds is rather risky except in the hands of one who Poultry are naturally of a hardy na- thoroughly understands breeding, and

indicated by loss of appetite and dis- result is that the sow never turns out tended crop followed by difficult to be what she would have had she an operation could be performed as a and sows of the same breed. To speak

neglect that they become diseased. Among the exiles smooth plumage is noticeable in form Judah to Babylon were and wattles are bright red in color. The droppings, too, are more or less and wattles are bright red in color. The droppings, too, are more or less and wattles are bright red in color. The droppings, too, are more or less and bard, of a dark-brown color and capped with white. Other indications are perfectly in the matter in that light. They gend health are a bright eye, a first of good health are a bright eye, a first of good health are a bright eye, a first of good health are a bright eye, a first of good health are a bright eye, a first of good health are a bright eye, a first of good health are a bright eye, a first of good health are a bright eye. The first of good health are a bright eye are first of the same kind of food and the tothe very sung men who were appointed to receive their education at the roy young men who were appointed to receive their education at the roy young men who were appointed to receive their education at the roy young men who were appointed to receive their education at the roy young men who were appointed to receive their education at the roy young men who were appointed to receive their education at the roy. Then she took her umbrella, in case the banking, and went out.

Half an hour later the seven little young men surpassed all young men surpassed all of the worms, when Sammy, the oldest, saw young men to their religious conviction of literature and science. Daniel seven little bucky-Daddles fell into the pond, and all of them lost their rub.

As a summary, birds that are bright, pulled through.

active, with keen appetites, clear eyes, About three weeks before farrowing, might come from unclean animals; (2) pointed personal attendants of the king. Magicians . . . enchanters—

INTERNATIONAL LESSON SEPTEMBER 9.

Dan. 1, 8... ture. It is mainly on account of some such men do not practise it to any ex- background of the incidents sub- lebovah good-bye and said, "Stay near the strings, as the seven excited Ducky-

easier; he made the official in charge

Though the chief of the eunuchs did Cat behind the bush!" Mother Amanda as they could, but it would not shut.

Break off the protrucing portions of the letter can be bush!" Mother Amanda as they could, but it would not shut. not grant Daniel's request, the latter continued sharply. seer to try them for a short time on to their mother until Towser-Cat had Sammy, jumping out of the window. a vegetable diet. He agreed, and gone away. ate official, who was in personal charge called her children about her and "Let's push him into the pond! Let's chicken, process for preparing which push him into the pond!" Verses 1-7 furnish the historical general. Fairer fatter—The thought mufflers. One by one she kissed them Towser-Cat looked like a bundle of other vessel containing warm water

ers. Stood before—They were appointed personal attendants of the cried er.