

Conducted by Professor Henry G. Bell

The object of this department is to place at the set of our farm readers the advice of an acknowledge ority on all subjects pertaining to soils and crops.

Address all questions to Professor Henry G. Bell, in

WINTER WHEAT POINTERS

Ontario farmers at this time are 100 wheat seeds. Place them between busy with their preparation of the winter wheat areas. They are taking special care to give the ground the very best preparation, since winter dictently for you to count the number wheat this year means money. Prices that are going to grow. If you find are high and there seems every indication that they will remain so. In fact, wheat prices have but a very few pect to get a normal stand. times surpassed that obtained at the

coming year.

Now, there are ways and means by which the average farmer can increase both his wheat and his net profits. Be sure to see that the seed-bed has very thorough preparation. A rough, lum-py wheat seed-bed leads to uneven in sprouted seed the little germ coverpy wheat seed seed lead to planting, since many seeds are buried too deep and others fail to get sufficient covering.

If, after the ground is plowed, it has that it would produce a good healthy been carefully disked and harrowed, plant.

You took good care to feed up the kernels of soil are packed sufficiently young calf or the young pigs early in so that the moisture supply for the the spring, because you determined to ang growing wheat will be sufficient. have strong, vigorous stock. The same is moisture supply is all important, care should be taken in the feeding of use it is the carrier of plantfood. the wheat crop if best results are to young growing wheat will be sumcient.

This moisture supply is all important,
because it is the carrier of plantfood.

The plant obtains nearly all of its be obtained. food through its roots, and this food can be taken up only when it is dissolved in the soil moisture and root not all understand what fertilizers are, juices. If this very simple explana- or how they should be used. Fertili tion were fully comprehended by all Ontario wheat growers, it would eli-minate a great number of failures.

winter wheat cannot grow in a pool of water. It has to face the rigors of a rather severe winter, hence bad drainage conditions tend to retard its. Other food in the milk went to build. ent and subsequently weak, ing the bone of the animal. It is ed wheat makes an unsuctempt to face the severity of plant. So that the farmer may know

dian farmer is fortunate in that he can Now, the farmer reads that the ferrefer to his provincial or Dominion tilizer contains 2 to 4% nitrogen, we
tests. On both the experimental fields shall say. That means that the mixleading varieties of wheat are carefully tested year by year. Only those that show superior value are retained. Kind of plant-food. Of course every studied, recommendations are made on the basis of the results obtained. The following varieties have been found to give good results:

Banatka, American Banner, Imperial Ambey, Varregief Crimean Red. The varregief Crimean Re have been found to give good results: Banatka, American Banner, Imperial Amber, Yarroslaf, Crimean Red. The Amber, Yarrosiaf, Crimean Red. The first variety of wheat is especially good milling wheat, since it is hard and flinty and makes strong flour. Most farmers know that Dawson's Golden Chaff is one of the good variety. There is something beside variety, however. All cows are not record—

We said that some of the food in the milk which the calf drank went to building the bone of the animal. Bone is composed of a combination of lime and phosphoric acid. Now, strange to dump them on your compost pile. Same kind of a compound which is the compost heap. Pile them up and let them rot over winter and they will be ready for use as manure in the growing plant and to hasten its be ready for use as manure in the most of the growing plant and to hasten its be ready for use as manure in the most of the growing plant and to hasten its be ready for use as manure in the most of the growing plant and to hasten its be ready for use as manure in the most of the growing plant and to hasten its be ready for use as manure in the most of the growing plant and to hasten its be ready for use as manure in the most of the growing plant and to hasten its be ready for use as manure in the most of the growing plant and to hasten its be ready for use as manure in the most of the growing plant and to hasten its be ready for use as manure in the most of the growing plant and to hasten its because the milk them and the most of the growing plant and to hasten its because the milk them to decay, as they make a purpose which is composed of a combination of lime wishes to dispose of leaves induce him to dump them on your compost pile.

All cows are not recordkers. There are some that give twelve and fifteen thousand disc of milk in a year, and then he there are some that do not give there are some that do not give the same that d breakers. There are some that give again there are some that do not give mixture tions, there is a great scarcity of the few that produce extraordinary high milking records, upwards of twenty thousand pounds or over a year. These are very valuable and their calves are eagerly sought as breeding stock.

It is just the same story with wheat, further than the control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them. The control of the first two ingredients of plant-food in them.

HIGHEST PRICES PAID For POULTRY, GAME,

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most meat for a given amount of feed and most received thin, it is pointed out that this meat of the ton is made up of the carriers of these various plant-foods.

Fertilizers will not supply humus, as manure does. They induce rapid for food grant that would furnish food directly to man. Fertilizers will not supply humus, as manure does. They induce rapid food by-product from these waters and consequently add to the humas of the soil, is so far as in the soil in so far as in the soil, is so far as in the soil in soil in soil in the soil in soil in soil in the soil in the soil in soil in the so Most farmers have wheat drills, but mental Station, has recently pointed many good farmers have to rely upon out that if the farmers in the county sowing the winter wheat on the harrowness of over 30% of the crop pronounced for the county pointed many good farmers have to rely upon where the experiment station is rowed ground and then covering it by located followed the fertilizer practices of the station, has recently pointed many good farmers have wheat drills, but mental Station, has recently pointed where the experiment out that if the farmers in the county where the experiment station is rowed ground and then covering it by located followed the fertilizer practices of the station, has recently pointed many good farmers have to rely upon the many good farmers have to rely upon the properties of the farmers in the county where the experiment station is rowed ground and then covering it by located followed the fertilizer practices of the station, has recently pointed many good farmers have to rely upon the properties of the station is recently pointed many good farmers have to rely upon the properties of the station is recently pointed and the followed the fertilizer practices of the station is recently pointed and the followed for the county where the experiment station is recently pointed and the followed for the farmers in the county where the superiment station is recently pointed and the followed for the farmers in the county where the superiment station is recently pointed and the followed for the farmers in the county where the superiment station is recently pointed and the followed for the farmers in the county pointed and the farmers in the county pointed and the farmers in the county pointed and the farmers have to rely upon the farmers have the farmers have to rely upon the farmers have to rely upon the farmers have the farmer Most farmers have wheat drills, but mental Station, has recently pointed n 1917. Uncle Sam aims at case, be sure to take care that the billion bushels of wheat this seed is thoroughly covered. There should be very little difficulty this theory, it is a point already demonstrated by the control of the co In preparing the seedbed, be very careful to avoid using sprouted seed. the farmers of the province can take great advantage of the high prices which must prevail this coming year.

or requires nearly in greenhouses, hotbeds and cold frames where a rich soil is necessary in order to give quick action. The compost is mainly used for top dressing a growing crop, for fertilizing the soil in seed beds and for melon hills. If it has not already been done measures should at once be taken by the gardener who contemplates growing vegetables under glass next spring to provide himself with a pile of alternate layers of manure and grass sods turned upside down, or if this cannot be had use earth. The

the Canadian winter. It will be of the relative amount of plant-grower, little avail to seed winter wheat in plant-ripener and plant-strengthener ground that is poorly drained. Use that the fertilizer carries, the Dominuell-drained ground so that the plant ion Government in 1909 decreed that may have suitable growing conditions. this should be stated on the bags in the top flattened to permit of the Volumes have been written about which the fartilizers and that the stated on the bags in the top flattened to permit of the ling does not ordinarily add much to reli-grained ground so that the plant hay have suitable growing conditions. Volumes have been written about which the fertilizers are sold, and that the analysis should be guaranteed an farmer is fortunate in that he can fer to his provincial or Dominion tilizer contains 2 to 4% nitrogen with the point in the plant of the pile should be made as possible and hard the top flattened to permit of the top flattened to permit of the top flattened to permit of the pile in a shady place and, if the water is available, to give an octaining recent of dairy cows. Some unpalatable feeds may be consumed to the top flattened to permit of the pile in a shady place and, if the water is available, to give an octaining recent of dairy cows. Some unpalatable feeds may be consumed to the top flattened to permit of the pile in a shady place and, if the water is available, to give an octaining recent of dairy cows. Some unpalatable feeds may be consumed to the top flattened to permit of the pile in a shady place and, if the water is available, to give an octaining recent of dairy cows. Some unpalatable feeds may be consumed to the top flattened to permit of the pile in a shady place and, if the water is available, to give an octaining recent of the pile should be made as nearly perpendicular as possible and hard the top flattened to permit of the top flattened to

tests. On both the experimental fields of Ontario Agricultural College and the Dominion experimental farms, of plant-food, which causes the wheat leading varieties of wheat are care-plant to grow rapidly. Manure conver; that is, throwing the entire pile

it go two or three times as far.

not burn leaves that fall in the
We said that some of the food in the autumn; rake them into a pile and

the growing plant and to hasten its be ready for use as manure in the maturity. The per cent. of phosphoric acid (P205) shown by the analysis on leaves have been turned under will be the bag, will tell you how much of this sufficient to neutralize the soil. Oak

3Hoos€

Do not feed the dairy herd as a points in the end wins. Herd, for cows differ in their food requirements just as human beings do. of the hands, the screen should be By feeding all cows in the herd alike, raised a foot or so from the floor so some are sure not to get enough for that the shoes may be seen underthe greatest profit and others will get neath and the rest of the body hidden more than they can use to advantage.

Obsfacle Race—There is plenty of dinner left-overs:

dinner left-overs:

Crisp rolls hollowed out and filled with chopped meat or fish; season with a little saiad dressing; a peach and apple.

Cold slices of meat loaf, soda cracking the profit and others will get neath and the rest of the body hidden more than they can use to advantage.

Obsfacle Race—There is plenty of dinner left-overs:

dinner left-overs:

dinner left-overs:

dinner left-overs:

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dinner left-overs:

and quantity of food than does old age, and especially does it require more protein and meat.

Cold slices of meat loaf, soda cracking the protein and meat.

Cold slices of meat loaf, soda cracking the protein and meat.

Cold slices of meat loaf, soda cracking the protein and meat.

Cold slices of meat loaf, soda cracking the protein and meat.

Learning what foodstuffs best suit is one of the greate ducational tasks man has before him, for he no longer has the intuition of the lower animals.

The latter seem to inherit a sense that directly the protein and protein and

The sights and sounds of summer nights Have changed; the steely stars

Are glinting bayonets around The crimson flag of Mars. The bullfrogs in the reedy pon

Are pounding the big bassdrums. The fireflies in the dewy fields The cricket on the fife. Along the misty hill The waving branches simulate

A regiment at drill, Soft bandages as white as snow The garden-spiders spin, The katydid has turned her tune,

And now command, "Fall in!"

Destroying Poison Ivv.

Poison ivy will not be killed by single cutting, as new shoots or suckers are persistently sent up from the root stocks. The root stocks must be Proper gardening requires a long period stocks. The Foot stocks must be period of preparation. Now is the sthausted by destroying the foliage as fast as it appears, either by repeated mowing or by spraying with a strong salt brine made at the rate of three pounds of common salt per gallon of without a rudder.

A man without a rudder.

We are all cereal foods thoroughly disagree with the child? If so, was it because the bread soggy? If so, was it because the loaves were too large, or because they were not cooked long water. If the weed it cut or sprayed water. If the weed it cut or sprayed by the habit of condown.

We are possibly just as wasteful of card when he was not hungry?

Did I take pains to get a variety of location in the result of the child? If so, was it because the loaves were too large, or cooked long on the power Plants Being Replaced by Modern Ones.

We are possibly just as wasteful of card when he was not hungry? A man without a plan is like a ship of common salt per gallon of water. If the weed it cut or sprayed it is just the same story with wheat. Just because a sample of wheat is of first-class quality. You have the small and shrivelled grain, because inferior plants take upon the small and shrivelled grain, because inferior plants take, upon the food and fall to return the good in the flood and fall to return the good is or weathing of the seed, that is, count out witality of the seed, that is, count out ship of the seed is a plant to me agent of the kernel. It also gives the plant power to resist disease, or not plant to cat when he was not hungry?

We are all in the habit of condemn salt per gallon of water, if the weed it cut or sprayed in the tent tent of a particular variety fs no criterion that it is of first-class quality. You have the small and shrivelled grain, because inferior plants take, upon the day syet.

Now the plant ever uses pure nitrogod and fall to return the good in the seed, that is, count out vitality of the seed, that is, count out witality of the seed in the habit of condemn salt per gallon of water, if the weed it cut or sprayed in the reatment repeated that cut or sprayed in the cat when he was not hungry?

We are all in the habit of condemn salt per gallon of water, if the weed it cut or sprayed in the cat water to cot the day of count of cou



Compost.

Well rotted manure or other organic matter is known as "compost," or when mixed with soil as "composted soil." This last is invaluable for use in greenhouses, hotbeds and cold frames where a rich soil is necessary in order to give quick action. The compost is mainly used for water in the food.

**Allow of the shoes may be seen under that the shoes may be seen under that the shoes may be seen under the body hidden. The latter seem to inherit a sense that directs them to what is best for their being remainded to the body hidden. The state is plenty of the induced to drink two or three times and let in one by one. The boy or girl and let in one by one. The boy or girl and let in one by one. The boy or girl and let in one by one. The boy or girl and let in one by one. The boy or girl are the shoes may be seen under. The latter seem to inherit a sense that directs them to what is best for their body wants. The vast majority of an all the induced to drink two or three times and let in one by one. The boy or girl

Teasing a baby to make it laugh is The farmer grows his crops without an ounce and one-half an hour.

When the body is exposed to great

"Gladness of heart is the life of man, and the joyfulness of a man pro-longeth his days."—Ecclesiasticus.

as a monopolist.

any practical help from the government, and his right to them is indisputable.

When the body is exposed to great heat, and especially during muscular activity, the amount of perspiration may be increased to thirty or forty times the ordinary amount of two or

ongeth his days."—Ecclesiasticus.

The farmer in Japan who has more 1845, and there are five or six still than 10 acres of land is looked upon standing, have done constant service and are made of wood.

THE CHILDREN'S FOOD

Questions Every Mother Should Ask Herself.

Have I taken pains to see that the poultry?

eream, butter, and salad oils, or of the unwholesome kind found in doughnuts

a milk by using it in the preparation of cereal mushes, puddings, or other-

Did each child take about a quart | Did each child have an egg or an f milk in one form or another?

wholesome kind found in doughnuts and other fried foods?

Did I make good use of all skim-nilk by using it in the preparation of ereal mushes, puddings, or other vise?

Cooked and carefully seasoned?

Were vegetables and fruits both on the child's bill of fare once during the day? If not, was it because we have not taken pains to raise them in our home garden?

The daily cold bath and bi-weekly cleansing bath at night (daily in warm weather) are essential means of skin hygiene.

Did either the fruit or the vegetable Were all cereal foods thoroughly disagree with the child? If so, ought EFFECT OF HIGH-PRICED COAL.

Health

times the ordinary amount, or two or three pints an l and one-half pints, each twenty-four

The anatomists tell us that in the entire twenty square feet of skin with which the body of a full-sized man is overed there are about three milli aggregating

miles of tubing.

Each one of these three million sweat glands produces during a life-time of sixty years about one-third milk that comes to my house has been handled in a clean way?

If I was obliged to serve skim-milk for the sake of cleanness or economy, did I supply a little extra fat in some

If I was unable to get milk, meat,

If I was unable to get milk, meat,

If I was unable to get milk, meat, ther way?

If I was unable to get milk, meat, ther way?

If I was unable to get milk, meat, the skin absorbs also. Hence it the wholesome kind found in milk, the skin absorbs also. Hence it the skin absorbs also well as active, the skin absorbs also well as active. Porous clothing, light, and preferably cooked and carefully seasoned?

1

to win the war.
In the modern, efficient power plant, 20 per cent. of the heat consumed is converted into power, whereas in small power stations the efficiency frequently drops below 10 per cent. It is quite probable that, on the average, only about 5 or 6 per cent. of the energy of the coal is transformed into useful energy ready for distribution. Were it possible to increase the average efficiency to something near the maximum now at-tainable, about three times as much energy would be available for the productive industries of the country. The increasing price of coal is causing many old, inefficient steam power plants to be replaced by modern ones that convert a higher percentage of the fuel consumed into power.

----It takes the constant labor of 60,000 people to make matches for the world.

One kind of curiosity is a small boy with two grandmothers who isn't spoil-

The Doings of the Duffs.





