

A GRAND KIDNEY MEDICINE

"Fruit-a-tives" Cured Him When Everything Else Failed.

Iverton, Ont., March 15th, 1908.
I wish to place on record for the sake of others who may be suffering in the same way that I suffered, that no medicine I ever took did me so much good as "Fruit-a-tives" did. I suffered for many years with Kidney Trouble, with bad pain in the back. I took every known kidney remedy and kidney pill, but nothing gave me any relief, and I was getting discouraged. I was advised to try "Fruit-a-tives" and did so, and this medicine cured me when everything else failed.



I used altogether fifteen boxes of "Fruit-a-tives" from the outset they gave me relief and I am now practically well again; no pain, no distress, and all symptoms of kidney disease have entirely left me. I am very thankful to be once more well, and I freely make this statement for the sake of others who may suffer as I did. To them, I say try "Fruit-a-tives," as they are a grand kidney medicine.
CLARENCE J. PLACEY.
50c a box, 6 for \$2.50, or trial size 25c. At dealers or from Fruit-a-tives Limited, Ottawa.

YOU have to buy hats on faith, at best. Seems wisest, then, to buy a make that justifies all the faith you can show. That is the kind labelled like this:

WAKEFIELD LONDON

It pays to find the hat store that sells them.

A. A. ALLAN & CO., LTD., TORONTO

Wholesale Distributors for Canada



HOTEL MIRAMICHI

Opened January 1909.

Most Luxurious and Up-To-Date Hotel in Northern New Brunswick.

JAS. P. WHALEN, Proprietor
Newcastle, Miramichi, N. B.

Features of HOTEL MIRAMICHI

Telephone Connection in Each Room

Artificially Furnished Rooms with Private Baths

Building is of Brick with Adequate Protection

Situation—The Heart of the Sports Paradise

Best Fishing Privileges on the North Shore

Provided

Imported Chefs

Fine Sample Rooms

Luxury Stable in Connection

Rates \$2.00 and 250

60 YEARS' EXPERIENCE

PATENTS

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Scientific American.

MUNN & CO. 361 Broadway, New York

Home Course In Modern Agriculture

I.—How a Seed Starts to Grow

By C. V. GREGORY.

Agricultural Division, Iowa State College

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SINCE the condition of the soil has so much to do with the readiness with which the plants can get food from it one of the most important problems that confront the farmer is the proper preparation of the ground. The first work of preparation usually consists of plowing. Plowing the ground pulverizes it to some extent and buries the weeds and trash that may be on the surface.

Plowing should not be done when the soil is too wet, or the first of these objects will not be accomplished. Instead of being pulverized, the slice turned up by the plow will be packed together more firmly than ever and will bake into a hard clod. The furrow slice will also turn up cloddy if the soil is too dry.

A good way to tell when a field is in proper condition to be plowed is to squeeze a ball of the dirt in your hand. If it sticks together in a pasty mass you had better let it dry a few days longer. If it hangs loosely together in a mealy ball the plow can be set to work at once. Such soil will fall over the edge of the moldboard in loose, crumbly masses. The field will not be ridged like a washboard, as too many fields are, but will aptly demonstrate the truth of the old saying that "a field well plowed is half harrowed."

In order to do a neat job of plowing a colter and a weed hook are necessary.



FIG. V.—A GANG PLOW AT WORK.

ry attachments. By using them all the trash can be turned under completely. This not only hastens the decay of such matter, but also adds greatly to the looks of the field. Too many farmers do not pay enough attention to looks. A ragged looking field may raise just as large a crop as a smooth one, it is true, but the farmer who is careless in his plowing is likely to be careless in everything else.

If the plowing is done in the fall it does not matter so much whether it turns up cloddy or not. The hard freezes of winter are the best pulverizers that ever tore a clod to pieces. This is one of the advantages of fall plowing. One of the disadvantages is that in an open winter the soil is liable to wash badly. This can be prevented to some extent, however, by planting a catch crop, such as oats or millet, on the field after plowing.

The depth of plowing will vary with the conditions. A light, sandy soil does not need to be plowed as deeply as a heavier one. If the ground is plowed the same depth every year the bottom of the furrow will become hard and the roots will have difficulty in getting through it readily. A good plan is to begin at, say four inches, and plow one-half inch deeper each year until a depth of seven or eight inches is reached. Then go back to four inches and begin over again. In this way a little new soil is turned up every season and the layer of surface soil gradually deepened.

Spring plowing should be shallower than that done in the fall. The soil is full of tiny roots, its structure being much the same as that of light bread. If you will put one corner of a slice of bread in a dish of water you will notice that it becomes wet for a considerable distance above the surface of the water. This is caused by the moisture flowing upward through the little holes in the bread. The force that causes water to rise in a small tube is called capillarity. It is this capillarity that makes the water rise from the subsoil up to the surface where the roots can use it. The smaller the capillary tubes the faster and higher the water will rise.

When the ground is plowed these capillary tubes are broken up, and the rise of water is checked. To start it again the soil must be allowed to settle for a long time or else be worked down with the disk, harrow or roller. In the fall the depth of plowing does not matter, since the furrow slice will have all winter in which to settle. But in the spring this capillarity must be restored almost at once or the surface layer will become so dry that germination and later growth will be checked. Hence the importance of shallow plowing, so as to reduce the labor of disk and harrowing. If the surface of the ground is crusted or if there is much trash to be turned under the field should be disked before it is plowed. This will provide for a layer of fine dirt in the bottom of the furrow, which will tack down closely and help to restore capillarity.

If the furrow turns up "shiny" or shows any tendency to bake into clods it should be harrowed every half day, or every day at least. This seems like a great deal of extra work, but if a harrow is kept in the field it does not take long to hitch on to it and go over the newly plowed strip just before quitting for noon or night. A few minutes spent in harrowing at such

times will pulverize the ground more than hours of work after it has become dry and baked.

The fall plowing will usually need to be gone over with the disk to get it in shape for planting. The superior condition obtained by double disk— that is, letting the disk "lap half"—will more than pay for the extra labor. There is an additional advantage in that the surface is left smooth. Disking spring plowing is seldom necessary.

In cases where improper plowing has left a field cloddy the roller may often be used to advantage. A corrugated roller is better for this purpose than a smooth one, as it tends to crush the clods rather than to simply push them down into the finer dirt. A home-made "planker" or clod crusher will often answer the purpose as well as a roller.

The roller packs the ground considerably and so quickens the capillary rise of water. If the surface is left smooth much of the moisture that comes up will be lost by evaporation, and later in the season the crop will be likely to suffer from drought. To avoid this the roller should be followed immediately by the harrow.

This loosens a thin layer of surface soil. When the capillary water reaches this loose layer its rise is checked, and comparatively little is lost by evaporation. For this same reason it is often well to harrow fall plowing as soon as it is dry enough in the spring, especially if disk is not to be done until late.

After the ground is plowed and disked the harrow must be used to complete the preparation for planting. There are many kinds of harrows, but none that are better than the ordinary spike tooth. These are made in all styles and sizes. The harrow is economical to use, since it gets over ground so rapidly. The best time to harrow is in order to pulverize the soil immediately after a light shower. The little clods will then be softened and will be easily knocked to pieces. To kill weeds, however, it is better to wait until the soil is a little drier, as harrowing a wet field will transplant the weeds rather than destroy them.

Do not be afraid to harrow too much. No work that you can put on a field pays better. No other implement will kill as many weeds in so short a time, and no other machine will tear clods to pieces so rapidly. A field well plowed and disked and harrowed until it is as fine as tilth as it is possible to make it is an ideal seed bed. Seed planted in such a soil will start under the most favorable conditions. If the seed itself is strong and the after treatment what it should be, a maximum crop may be expected.

Not all fields need to be plowed before the crop is put in. It is a general practice in the corn belt to sow small grain on stalk fields without any previous preparation. Experiments have shown that small grain does not yield enough more on plowed corn stalk ground to pay the cost of plowing. Very frequently they do not yield as much. Where small grain follows small grain, however, plowing is necessary to kill weeds and loosen the surface soil. It does not need to be loosened as deeply as for corn, however, since the small grain plants are harder than corn and the roots are more aggressive in pushing through a hard soil.

While plowing stalk ground is unnecessary, it will usually be found profitable to disk the land before seeding. This chops up the cornstalks and provides a mellow layer of soil for the seed to germinate in.

Where the oats are to be put in with a drill the ground should be double disked previously. If sown broadcast

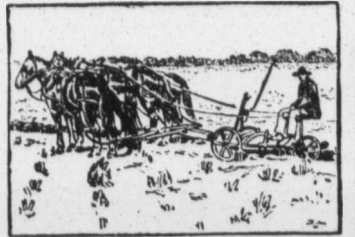


FIG. VI.—PREPARING THE GROUND WITH A DISK PLOW.

one disk before sowing and one afterward will cover them better than two after sowing. The drill is becoming more popular for sowing oats, and justly so. It places the seed at an even depth and covers them all. It saves seed because it places all of it where it has an opportunity to grow. After the oats are drilled or disked at least two harrowings should be given. Even three or four would be too many, since this is the last chance to cultivate the crop.

In some parts of the corn belt the practice of listing corn is followed. This consists in throwing up a large furrow and planting the corn in the bottom of it. In this case there can be little previous preparation of the ground unless it is to go over once with the disk. Corn is listed only on very light soils, which do not puddle or become cloddy easily. Such soils need less preparation than the heavier clays and loams.

STOMACH DISTRESS

And all Misery From Indigestion Vanishes Five Minutes Later.

Every family here ought to keep some Peppes in the house, as any one of you may have an attack of indigestion or stomach trouble at any time, day or night.

This harmless preparation will digest anything you eat and overcome a sour stomach in five minutes after meals.

If your meals don't agree with you, or what little you do eat seems to fill you, or lies like a lump of lead in your stomach, or if you have heartburn, that is a sign of indigestion.

Ask your Pharmacist for a dozen cases of Peppes and take one or two after supper tonight. There will be no sour risings, no belching of undigested food mixed with acid, no stomach gas or heartburn, fullness or heavy feeling in the stomach, nausea, debilitating Headaches, Dizziness or intestinal griping. This will all go, and, besides, there will be no sour food left over in the stomach to poison your breath with noxious odors.

Peppes is a certain cure for all stomach misery, because it will take hold of your food and digest it just the same as if your stomach wasn't there.

Actual prompt relief for all your stomach misery is at your Pharmacist waiting for you.

These large 24-cent boxes contain more than sufficient to cure a case of Dyspepsia or Indigestion.

HANDICAPPED

This is the Case With Many Newcastle People.

Too many Newcastle citizens are handicapped with a bad back. The increasing pain causes constant misery, making work a burden and sleeping or sitting an impossibility. The back aches at night, preventing refreshing rest, and in the morning is stiff and lame. Plasters and liniment may give relief, but cannot reach the cause. To eliminate the pains and aches you must cure the kidneys.

Booth's Kidney Pills cure sick kidneys and cure them permanently. Can you doubt Newcastle evidence?

Mrs. James Black of Mitchell St., Newcastle, N. B. says:

"Many symptoms of kidney trouble had been prominent for over a year. I became so weak and ran down through loss of sleep that I could scarcely walk across the floor. The dull, burning down pains across my back were almost unbearable, and I could find nothing to give me the least relief. Headaches and spells of dizziness added much to my suffering and I was so nervous I could not sleep for rest anytime. I have heard so much about Booth's Kidney Pills, I concluded I would try them so I sent to Mr. Booth's Pharmacy and procured two boxes. I began treatment and found Booth's Kidney Pills were beneficial to me. The pains across the kidneys were less severe and the headaches were less frequent. I did not finish the second box of Booth's Kidney Pills and I am well and strong again and without a symptom of kidney trouble. I am glad to recommend Booth's Kidney Pills." Sold by Dealers. Price 25c. The F. E. Booth Co., Ltd., for Agents, 114, Adelaide St. W., Toronto, Ont., Sole Canadian Agents.

It seems to be the general impression in government circles that Chief Superintendent Luch, who is now on a holiday trip through the United States, intends resigning his position in the no distant future. Among the names mentioned in connection with the position are those of Principal Foster, of the Fredericton High School, Inspector Carter, of St. John, and Inspector Mercier of Dorchester.

PROTECT THE GIRLS

(The Home Journal)

One cannot but be struck with the increasing number of crimes against girls reported in our large centres, the result no doubt of the large influx of this class to take up employment in our large stores and manufactories. A girl away from the influences and safeguards of home is subjected to danger that few people not in daily contact with the exactions and temptations of modern commercial and industrial life realize.

The loss of home life to a boy means a great deal, but with a girl it is almost irreparable. The story of a young girl taken unconscious from a room over a King street store the other day carries its own sad moral. It is a shame that nothing more is done to provide these girls who come to our cities with safe, healthful homes. It is a matter of congratulation that efforts of this kind through the Young Women's Christian Guild, the Young Women's Christian Association, the Georgina House, and similar agencies are arousing growing interest and sympathy.

WHY WESTERNERS ARE SO PROUD OF THEIR COUNTRY

Can Grow Best Wheat on Earth.

Both the story and the success of Purity Flour began in the rich, black, heavy soil, the gumbo, as it is called, that characterizes the plains of Western Canada. After examination by the world's foremost scientists, this soil has been proclaimed the richest on earth's surface in every constituent that goes to the making of wheat. Western Canada must, therefore, be looked to for their wheat by all the wheat-eating countries that want the best flour or require full, hard wheat. So that the reason for the existence of the great St. Boniface mill of the Western Canada Flour Mills Company lies in the fact that it stands at the door of the provinces which possess this rich, wheat soil. The Western Canada Flour Mills Company has a far-reaching system of store houses scattered throughout the entire West, which are used both as purchasing depots and flour warehouses. Along the main and branch lines of the western railroads there are at present over 75 of these, and this number is being constantly added to as new lines of railroad open up virgin wheat country. They have a capacity of over two and a half million bushels. As fast as the wheat is bought, and required at any of the company's mills it is shipped to Brandon, Winnipeg or Godrich, in which cities the company's mills are located.

The St. Boniface mill is one of the show places of Winnipeg. Among millers it is famous as one of the most perfectly equipped large modern mills in the world. In extent the property covers over 12 acres. The mills, which were completed in 1906, cost over \$1,000,000. The mill proper is seven stories in height, with a floor space of 75,000 square feet and apart from the mill there are 14 tanks with a capacity, including the work-house, of over 500,000 bushels, an elevator that has a capacity of 45,000 bushels, and an electric power plant from which is distributed power, light and heat for the entire establishment.

The mechanical equipment is nothing short of marvelous. Its amazing completeness may be estimated from the fact that in the huge, seven-story building of the mill itself less than ten men employed, the entire work being carried on by automatic machinery. Is it any wonder these Westerners are proud of their country and its soil, their wheat, and of the product of it, their Purity Flour?

COULD GET NO RELIEF

"Til 'Father Morrissey's No. 10' Cured Bronchial Trouble.

Pictou, N. S.

FATHER MORRISSEY, M.D., CO., LTD.

I can testify to the benefit derived from Father Morrissey's No. 10 in bronchial trouble.

For some time I was a sufferer from this trouble, and could get no relief from it, until I used his medicine prescribed.

On taking Father Morrissey's medicine, I began to improve, and was completely cured.

With a grateful heart, I give this testimony, to the great value of Father Morrissey's prescriptions.

I remain,

JOHN GRATTAN.

This is simply a sample of hundreds of letters which were received by Father Morrissey during his lifetime, and since then by the Father Morrissey Medicine Co., Ltd. Do not despair, even though your cough has defied ordinary cures, but get a bottle of "Father Morrissey's No. 10" and experience yourself the relief it has brought to so many sufferers. Trial bottle, 25c. Regular size 50c, at your dealer's, or from Father Morrissey Medicine Co., Ltd., Chatham, N.B.

AN IDEAL TONIC

And Blood Purifier is Mether Seigel's Syrup, made from roots, barks and leaves. It cures Indigestion and Constipation, Regulates the Bowels, Tones the Digestive System, Imparts the Vigour and Vitality of Health to every Organ of the Body.

MOTHER SEIGEL'S SYRUP.

Go cts. per bottle. Sold everywhere. A. J. WHITE & CO., LTD., MONTREAL.

A GOOD STOMACH

Means Good Health, Cheerfulness, Ambition, Perseverance and Success.

Misery will only come to a man who has any other stomach trouble by building up the healthy walls and lining the stomach so strong that it will digest food without the aid of any artificial aid.

In other words, Misery is dyspepsia by removing the cause. T. J. Barry is the general agent in New Castle and the only reader of the Pictou Advertiser whose stomach is weak, who has been afflicted with the most distressing dyspepsia, that Misery is caused by indigestion of food.

The cause is only a few large boxes, and one box will prove to be a cure for the trouble.

Mr. Barry, I understand, is a well-known man, and he has been a sufferer from this trouble for many years. He could not get any relief from any other medicine, and he had heard of the Pictou Advertiser.

I was with the Pictou Advertiser having taken two boxes of the Pictou Advertiser, and can say that it is perfectly and an excellent remedy, and also overcame my constipation. I am only too glad to publish this and recommend Misery.

The Pictou Advertiser is a well-known man, and he has been a sufferer from this trouble for many years. He could not get any relief from any other medicine, and he had heard of the Pictou Advertiser.

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