# HOW TO AVOID POTATO ROT

## BORDEAUX MIXTURE SHOULD BE USED FREELY.

### Useful Recipe for Making the Mixture, and How to Apply It to the Vines.

If potato growers could only be led to realize that late potato blight or rot cannot be cured but can be prevented, they would use Bordeaux mixture more freely than they do. It is quite true that the late blight is not an annual visitor, nevertheless no one can prophesy when it will put in an unwelcome appearance. After it makes its presence visible by the leaves turning brown and drying up it is too late to save the crop, for fungicides are only preventives and not remedies. It does little if any good to apply them after the disease appears, and the spraying must be done before it can be known whether or not an outbreak will occur. Thus it is that if the blight does not appear the money spent in spraying appears to have been thrown away. Experiments not only in Canada but in the United States have demonstrated that spraying is profitable whether the late blight prevail or not. Though early blight is almost certain to appear unless prevented, and its damage, not so noticeable in any one season, as that of the late blight, yet fully as great in the aggregate, may be almost wholly avoided by spraying. This disease causes the brown dead spots on the leaves, which are marked by concentric rings, and which sometimes affect so much of the leaf surface that the nutrition of the plant is seriously checked. For this disease, as for the late blight, Bordeaux mixture is an almost perfect preventive. Its protective power would probably be complete could each leaf be entirely coated with a thin layer of the deposited lime and copper sulphate, because the spores of the disease could then not find any vulnerable point. The nearer this complete coating is obtained the more perfect will be the protection, and it can only be secured by spraying carefully

WITH A FINE NOZZLE.

While Bordeaux mixture is not poisonous to insects it is very distasteful to them, and Paris green combined with it can be more evenly distributed by the sprayer than in any other way. The lime in the Bordeaux mixture will cause the poison to adhere to the leaves so that its protective influence is strengthened and the period of its efficacy prolonged. Flea beetles as well as the ordinary potato beetles can scarcely attack the leaves without being poisoned; and applied with the Bordeaux mixture Paris green will not burn the foliage as it sometimes does when applied as a dry powder, or when simply mixed with water. Many authorities, too, believe that the Bordeaux mixture itself exerts a favorable influence upon potato foliage not due to its effect upon diseases or insects. These reasons combine in favor of using it on potatoes; and in the experiments made, the application of Bordeaux mixture and Paris green were profitable even in a season when fungous diseases were scarcely noticeable.

The Bordeaux mixture for use in potatoes should be made as follows: Take six pounds of copper sulphate (blue vitrol) and tie it up in a piece of thin cloth—an ordinary salt bag will answer well—then suspend it from a stick laid across the top of a coal oil or other barrel half filled with clean water, so that the bag may be just beneath the surface of the water; when the copper sulphate will dissolve in an hour or two. In another vessel slake four pounds of fresh lime in sufficient water to make a thin whitewash. Strain this through a fine sieve or sack to remove all lumps. When the copper sulphate has all dissolved, pour the lime wash into a barrel slowly, stirring the mixture all the time. Now fill up the barrel to the top with water, and the mixture is ready for use.

TO APPLY THIS MIXTURE

to the foliage the best and cheapest way is to use a proper spraying pump and nozzle; but if these be not on hand, good results which will well repay the trouble may be obtained by applying the mixture with watering cans supplied with fine roses.

A great advantage of this mixture is that Paris green, the only practical remedy for the Colorado potato beetle, can be applied at the same time. To do this Dr. James Fletcher, the Dominion Entomologist, advises mixing from a quarter to half a pound of Paris green with a little water so as to make a thick paste, and then adding this to the forty-five gallons of Bordeaux mixture, which renders the poison of exactly the same strength as when used with plain water.

These mixtures must be kept constantly stirred while being used, as both the lime in the Bordeaux mixture and the Paris green quickly sink to the bottom of the mixture if left undisturbed.

The Bordeaux mixture is a preventive remedy, and the time to apply it in any locality is just before the blights treated of usually appear there, the object being to keep the plants during the whole of the time they are liable to injury covered with the fungicidal preparation.

The early blight in Ontario and Quebec generally appears at the end of June or the beginning of July. The late blight or potato rot in most parts of Canada seldom shows itself until August. Spraying should, therefore, be begun early in July and be repeated every two weeks at least until the second week in September.

Three applications of Bordeaux mixture and Paris green may suffice, experiments showing in plots sprayed three times as much as 52 bushels more per acre of merchantable potatoes than in the unsprayed plots; and in those sprayed five times, 62 bushels more to the acre than in the unsprayed.

Department of Agriculture, Ottawa.

# A MOTHER'S PRAISE,

## FOR THE MEDICINE THAT RESTORED HER DAUGHTER'S HEALTH.

### She Had Suffered From Severe Headaches, Vomiting and Extreme Nervousness, and Feared She Would Not Regain Her Strength.

Every prudent mother will watch carefully the health of her young daughter at the period when she is passing from girlhood to womanhood. This period is the most critical in the young girl's life. It is then that she becomes pale, easily tired and troubled with headaches, without apparent cause. The blood becomes thin and watery, and unless prompt steps are taken to restore it to its rich, red, health-giving condition, decline, and perhaps consumption will follow. Dr. Williams' Pink Pills have cured more pale, anaemic, easily tired girls than any other medicine, and mothers will make no mistake if they insist upon their growing daughters taking these pills from time to time. Mrs. P. Gage, a lady well known in Rowanton, Que., tells what these pills have done for her daughter. She says: "My daughter, Catherine, aged fourteen years, was suffering greatly with severe headaches, vomiting and nervousness. She was so completely run down that we feared she would not recover her strength. We tried several medicines, but they did not seem to do her any good. I then thought we would try Dr. Williams' Pink Pills, and the result has been up to our fondest hopes. She has fully recovered her health and strength, and I shall be very glad if this experience will help some other suffering girl regain her health."

Dr. Williams' Pink Pills make rich, red blood, and give new strength with every dose. They cure anaemia, headache, heart palpitation, dizziness and bring the glow of health to pale and sallow cheeks. These pills are also a certain cure for the ailments that make the lives of so many women a burden. Be sure you get the genuine with the full name "Dr. Williams' Pink Pills for Pale People," on the wrapper around every box. Sold by all medicine dealers or sent post paid at 50 cents per box or six boxes for $2.50, by addressing The Dr. Williams' Medicine Co., Brockville, Ont.

# WHY WOOLLENS WEAR THIN.

### A Scene in a Grocer's Store.

"Sir, I have just come round myself to tell you that you have absolutely spoiled a pair of blankets on me.

I have!

Yes, sir, you have!

Surely you are mistaken, madam!

I am not mistaken. I sent round my little girl a few days ago for a good strong soap to wash out some heavy things. In all innocence I used what you sent me, and the result is that my blankets are just the skeleton of what they were. They are ruined, sir, and it's your fault!

Yes, but I sent what I usually send in such cases.

What you usually send! No wonder Mrs. Moore, my neighbor, complains of her clothes wearing out; I find you usually send her the same soap.

But, madam, I always give my customers what they ask for. Had you named a particular brand of soap you would have had it.

Named a particular brand! How was I to know anything of brands? But I know better now, and I know what ruined my blankets—and my hands are in a nice plight, too!

I can assure you, madam, that it is not my desire to sell anything that will be injurious to either the hands or clothing of my customers, and I shall be glad to know how you prove that what I sold you injured your blankets and your hands.

Well, I was telling Mrs. Neill my trouble, and she lent me a little cutting, and here it is; you can read it: "Dr. Stevenson Macadam, Lecturer on Chemistry, Surgeon's Hall, Edinburgh, describes the destructive property of soda upon wool very graphically.

"After mentioning how strong alkali such as potash and soda, disastrously affect cotton, linen, and wool, he says:

"On one occasion I employed this property of soda in a useful way. There was a large quantity of new blankets sent to one of our hospitals, which, when given out, were said by the patients to be not so warm as the old blankets were, and that led to an investigation as to whether the blankets were genuine or not. They looked well, and weighed properly, and I got a blanket sent to me for examination and analysis. We found soon that there was cotton mixed with the wool, and the question was as to separating the two, because they were thoroughly woven throughout, and it was only by detaching the fine fibres from each other that you identified the cotton fibre. I fell on the device of using soda. I took a bit of blanket and put it in a vessel with soda, and boiled it there, and very quickly the wool got eaten away by the soda, and there was left behind the cotton as a kind of skeleton—a sort of ghost—of the original blanket out of which it was taken. I mention this merely to indicate to you the pernicious effects of using caustic materials, which, when employed strong by themselves, affect woollen articles in this way, and which, even when not very strong, will more slowly, but with equal certainty, tend to destroy the woollen fibre."

Now, I want to tell you that we neighbors have had a talk over the matter, and we are not going to have our clothes and hands ruined in this way. Several of our neighbors who know have proved to us that Washing Sodas, Potash, Chloride of Lime, and "soap substitutes" are most injurious to clothes and hands. "Free alkali" in soaps is practically the caustic soda that burns the clothes. Why, you dare not keep Caustic Soda in a tin canister; it must be in an earthen jar, or it will even corrode the tin! Now, it's for you to provide us with pure soap without free alkali, or we must find it elsewhere.

Madam, you enlighten me! So many soaps are advertised as pure, that I really took little heed to any difference between them.

I have one, however, that has medical certificates of its freedom from free alkali. It is guaranteed pure; and the makers offer $5,000 reward to any one who can prove it is not pure, and further, I am authorized to return the purchase money to any one finding cause for complaint.

Let me see it! Why, Sunlight Soap! It's a beautiful clean, fresh-looking soap, and this Octagon shape is very handy. Give me five bars.

Note by the grocer.—This whole neighborhood is using Sunlight Soap now. I have no more complaints. I have no room in my store now for resinous concoctions of alkali poisons; but it is not the grocer's fault if the public are satisfied with common soaps. If the public ask for Sunlight Soap—octagon bar—we give it them. 506

## POLICEMAN'S JOURNAL.

Every class now seems to have a special newspaper or "organ" in Paris. The Journal des Concierges has long existed, and a weekly has now been started in the interests of the police. It is not quite clear if the paper be written by policemen, but, at any rate, many of the secrets of the profession are revealed in it, and it is also perilously personal. It even contains sarcastic paragraphs about high officials of the prefecture, which is unceremoniously alluded to as the "haute boite." Minor persons attached to the stations are also referred to as having certain weaknesses, notably of an amatory kind, and nicknames are bestowed on evidently unpopular superintendents and inspectors. The antecedents of disfavored superiors are likewise insisted upon, and one of them is described as an ex-dustman, while another is reproached for having been a seminarist or ecclesiastical student, like M. Combes.

Everyone has heard of St. Jacobs Oil for rheumatism, strains, bruises, lame back, and all muscular aches and pains, but few know that there is nothing to equal it for relieving aching feet, troublesome corns, and for softening the harsh, callous skin which frequently forms on the soles of the feet. Anyone suffering from sensitive spots on the toes, sides of the feet, or between the toes, should rub a little St. Jacobs Oil on the sore spot every night. The immediate relief obtained is simply wonderful.

No household should be without St. Jacobs Oil. It will be wanted after cricket, after tennis, after a day's boating; in fact it is the athlete's friend. All chemists sell St. Jacobs Oil and a 50 cent bottle is sufficient to prove beyond a doubt the above statements.

## BAMBOO SCAFFOLDING.

The French Consul at Batavia states that lighthouses are built of bamboo cane in Japan, and suggests the importance of the wood in erecting builders' scaffolding. The power of resistance of a bamboo cane 8 inches to 10 inches in diameter, even with a length of 65 feet, is enormous. Moreover, bamboo is said not to rot either when in the ground or in water, while the drier and older it grows the firmer it becomes.

## A COMFORT AND A CARE.

### If Your Home is Blessed With a Baby You Will Appreciate This.

A baby is a priceless comfort, but in its utter helplessness is also a great care. Anything that will relieve the tired mother and add to baby's health and happiness is both a help and a friend. This is what makes the statement of Mrs. Thos. Little, of Kingston, Ont., so interesting to all mothers. She says:—"When my baby was eighteen months old he was troubled with a sour stomach and was badly constipated. These troubles made him cross and restless, and I had to be up with him a number of times during the night. I finally got a box of Baby's Own Tablets, and after giving them to him for a few days his bowels became regular, his stomach was sweetened and he slept well. I think these Tablets are just what mothers need for their little ones." Baby's Own Tablets are the best and most convenient form for administering medicine to the very young. They are safe and harmless and free from opiates. Sent post paid on receipt of price, 25 cents per box, by the Dr. Williams' Medicine Company, Brockville, Ont., or Schenectady, N.Y. A book on the care of infants and children sent free on request. Write for it.

White—"It's funny that it is usually men and women who are unattractive who do the marrying in this world." Black—"What do you mean by that?" White—"Why, when a couple weds, the lady's friends are quite unable to see what he could find in her and the man's friends are puzzled to understand what she could see in him."

## COFFEE BLINDNESS.

It is well known that the Moors are inveterate coffee drinkers, especially the merchants, who sit in their bazaars and drink coffee continually during the day. It has been noticed that almost invariably when these coffee drinkers reach the age of forty or forty-five their eyesight begins to fail, and by the time they get to be fifty years old they become blind. One is forcibly impressed by the number of blind men that are seen about the streets of the city of Fez, the capital of Morocco. It is invariably attributed to the excessive use of coffee. This opinion has been confirmed by the opinion of European physicians living there.


# SALADA

**Ceylon Tea is the finest Tea the world produces, and is sold only in lead packets.**

**Black, Mixed and Green.**

Japan tea drinkers try "Salada" Green tea.


They know how to encourage shooting in Switzerland. During two days recently there was going on at Zurich boys' shooting festival, in which 2,300 boys between twelve and fourteen took part. The competition is quite voluntary, being worked through the schools of the town, each boy who enters paying fifty centimes. The festival, it is said, is extremely popular with the boys themselves, and also with their elders.

The lecturer on philosophy had concluded his long and able address, and stood looking at the audience. "If there is any question," he said, "that any of you would like to ask me before I sit down I should be pleased to answer it." Amid the deep silence that followed this remark an earnest-looking man near the door rose up and said: "I'd like to know, professor, if anybody has ever yet discovered a reliable and certain cure for warts?"

# "WELL, THANK YOU."

## A GRANTON MAN IS NOW ABLE TO MAKE THIS ANSWER.

### Inquiring Friends Did Not Always Get Such a Cheery Reply Because for Many Years Mr. Fletcher Suffered With Lumbago.

Granton, Ont., Oct. 20.—(Special)—Mr. John Fletcher, a well-known farmer of this place, who suffered for a long time with Lumbago, and Kidney Trouble, has at last found a cure.

Now, when his friends inquire as to his health, he cheerily tells them that he is well, something which he has not been able to do for a long time, till quite recently.

Mr. Fletcher tells the story of his illness and how he was cured, as follows:

"I was troubled for a long time with Lumbago and Kidney Trouble. My urine was of a very red color. I tried many medicines but could get nothing to help me.

"I consulted the best medical doctors in Granton and St. Mary's, but they could do nothing for me.

"At last one day a druggist in Granton suggested Dodd's Kidney Pills as a cure for my Lumbago. I purchased a box and began to take them right away. The first box helped me and I kept on till at last I was completely cured.

"I am now as well as ever I was and have not had any trace of Lumbago about me. I am perfectly sound and I thank Dodd's Kidney Pills for it.

"I recommend them to all my friends, and as for myself I never intend that my house shall be without them, for I believe them to be the greatest medicine in the world."

Mr. Fletcher is a man who means every word he says and is prepared to substantiate the truth of every statement made above.

There seems to be no case of Lumbago, Backache, Kidney Trouble or Rheumatism, that Dodd's Kidney Pills will not cure.

New York has 250 hotels, London over 500. But New York's hotels will hold nearly as many people as London's greater number.


**Beware of Ointments for Catarrh that contain Mercury**

as mercury will surely destroy the sense of smell and completely derange the whole system when entering it through the mucous surfaces. Such articles should never be used except on prescriptions from reputable physicians, as the damage they will do is ten fold to the good you can possibly derive from them. Hall's Catarrh Cure, manufactured by F. J. Cheney & Co., Toledo, O., contains no mercury, and is taken internally, acting directly upon the blood and mucous surfaces of the system. In buying Hall's Catarrh Cure be sure you get the genuine. It is taken internally, and made in Toledo Ohio, by F. J. Cheney & Co. Testimonials free.

Sold by Druggists, price 75c per bottle.
Hall's Family Pills are the best.


Monkey Brand Soap cleans kitchen utensils, steel, iron and tinware, knives and forks, and all kinds of cutlery.

The United States now has three cities of over a million inhabitants; but the fourth, St. Louis, has only 575,000.


**Minard's Liniment Cures Dandruff.**


Prismatic Lake, in the Yellowstone National Park, is the largest body of hot water in the world.


**Minard's Liniment Cures Burns, etc.**

The Chinese drink their finest tea with feelings akin to reverence. This may seem strange to anyone who has not tasted Blue Ribbon Tea of Black, Mixed & Ceylon Green

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"How pleasant it is to see husband and wife of one mind." "It is, indeed. There's the Robinsons, for example. She thinks there's nobody in the world like Robinson, and he thinks so, too."

## WABASH RAILROAD.

During the months of September and October, will sell one way second class tourist tickets at greatly reduced rates to California, Washington, Oregon, Utah, Montana, British Columbia and other Pacific Coast points. Tickets will be sold via all direct routes. The Wabash is the shortest, best and quickest route from Canada to the above points. Finest equipped passenger trains in America.

Rates, time-tables and all particulars from any ticket agent, or J. A. Richardson, Dist. Passenger Agent, N. E. Corner King and Yonge Sts., Toronto, and St. Thomas, Ont.

Sweden and Denmark have no soldiers who cannot read and write. In Russia's army 70 per cent. of the men are illiterate.


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removes all hard, soft or callous Lumps and Blemishes from horses, Blood Spavin, Curbs, Splints, Ring Bone, Sweeny, Stifles, Sprains, Sore and Swollen Throat, Coughs, etc. Save $50 by use of one bottle. Warranted the most wonderful Blemish Cure ever known. Sold by all druggists.


While a square dance represents only half a mile of walking or moving, an average waltz takes dancers over three-quarters of a mile.


**For Over Sixty Years.**

An Old and Well-Tried Remedy.—Mrs. Winslow's Soothing Syrup has been used for over sixty years by millions of mothers for their children while teething, with perfect success. It soothes the child, softens the gums, allays all pain, cures wind colic, and is the best remedy for Diarrhœa. It pleasant to the taste. Sold by druggists in every part of the world. Twenty-five cents a bottle. Its value is incalculable. Be sure and ask for Mrs. Winslow's Soothing Syrup, and take no other kind.


There is a mountain of salt near Cardona, in Spain, which contains 500 million tons of almost pure rock-salt.

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offered passengers bound for Buffalo and New York by the Grand Trunk's fast "New York Express," leaving Toronto 6.15 p.m. daily, are seen at a glance when the splendid equipment is considered. A full dining car service until Niagara Falls is reached, a cafe parlor car running through to Buffalo, and one of Pullman's finest sleeping cars from Toronto to New York guaranteeing patrons comfort and luxury as well as speed. The cafe and dining cars are acknowledged to be the handsomest in America, being electric lighted and equipped with electric fans. City office, northwest corner King and Yonge streets.

4,000 foreigners were expelled by the police from France last year, 1,500 of these were Spaniards, 1,300 Belgians, and 500 Germans.


**Minard's Liniment relieves Neuralgia.**


At an examination held in an agricultural college the question was put, "When is the best time to sow barley?" A sharp country lad promptly replied, "Three days before a gentle rain, sir."


**Minard's Liniment for sale everywhere**


"You claim that you were insane when you proposed to her?" "Yes, sir." "Can you prove it?" "Yes, sir." "How?" "By producing the plaintiff in court and letting the jury look at her."

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**Good Things to Eat**

from Libby's famous Hygienic Kitchens, where purity prevails. All meats used in

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Keep in the house for emergencies—for suppers, for sandwiches—for any time when you want something good and want it quick. Simply turn a key and the can is open. An appetizing lunch is ready in an instant.

LIBBY, McNEILL & LIBBY, CHICAGO.

Write for our free booklet, "How to Make Good Things to Eat."


The United States received from Germany during the nineteenth century 5,079,362 immigrants.


Messrs. C. C. Richards & Co.

Gentlemen,—My daughter 13 years old, was thrown from a sleigh and injured her elbow so badly it remained stiff and very painful for three years. Four bottles of MINARD'S LINIMENT completely cured her and she has not been troubled for two years.

Yours truly,
J. B. LEVESQUE.

St. Joseph, P.Q., Aug. 18, 1900.


The mean height of the British Isles, above the sea is 714 feet.


THE MOST POPULAR DENTIFRICE.

**CALVERT'S CARBOLIC TOOTH POWDER.**

Preserves the teeth. Sweetens the breath. Strengthens the gums

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