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BUSH FRUITS AND THEIR CULTIVATION IN CANADA

By W. T. MACOUN, DOMINION HORTICULTURIST, AND M. B. DAVIS, B.S.A. ASSISTANT IN POMOLOGY.

Believing that all farmers and fruit growers are interested, especially during the winter months, in reading official information on fruit and fruit growing, we have arranged to print official bulletins on different fruit growing and other subjects. The first of a series on bush fruits appears below, and one will be continued serially each week until concluded.

A bulletin on Bush Fruits, No. 56, was published in 1907, but this has been exhausted for some time, and until the present bulletin was completed the demand for information was met by circulars giving brief recommendations of methods of cultivation and short lists of best varieties. It is hoped that the present bulletin will be found sufficiently exhaustive to meet the needs of fruit growers in different parts of Canada.

The bush fruits treated in this bulletin are the currant, gooseberry, raspberry, blackberry, dewberry, and loganberry, although there are other kinds of bush fruits native to Canada which are not yet cultivated to any extent which have a local importance when used as wild fruit.

While the bush fruits are valuable all over Canada, they are particularly useful in those parts where the climate is too severe to grow the tree fruits successfully. The currant, gooseberry and raspberry grow wild almost or quite to the Arctic Circle, well supplied in the far north can be supplied with either the native fruit with the hardiest of the cultivated sorts.

Many varieties have been tested at the different Experimental Farms during the past thirty years, so that it is possible to make lists of best sorts based on long experience and practical cases. Experiments of various kinds have been tried, and the results have been summarized in the methods of cultivation recommended.

The Currant.

The currant is not so generally used in Canada as some other fruits, as few persons care for them when eaten raw, and when cooked they are usually made into jelly and consumed by only a comparatively small proportion of the people. In the colder parts of Canada where other fruits do not succeed well the currant is more popular and is used much more generally. It is wholesome and refreshing fruit and deserves much more attention than it gets at the present time.

Propagation.

The usual method of propagating currants is by means of cuttings. These root very readily and good plants are obtained after one season's growth. The best time to make them is in the autumn, as currants suffer.

loom is the best for currants, although they will do well in most soils. If the soil is not so good as it might be it should receive a good dressing of manure before planting, which should be well worked into the soil. The latter being thoroughly pulverized before planting is done. A northern exposure is to be preferred, as in such a situation the currants are not likely to suffer in a dry time.

Planting.

The best time to plant currants is in the autumn. If planted in the spring they will probably have sprouted somewhat before planting, and on this account their growth the first season will be checked. Where the soil is in good condition currants, especially the black varieties, make strong growth, and the bushes reach a large size, hence it is better to give them plenty of space as they will do better and be less crowded than if crowded. Six by five feet is a good distance to plant. If planted closer, especially in good soil, the bushes become very crowded before it is time to renew the plantation. Strong one-year old plants are the best, but two-year old plants are better than poorly rooted yearlings. It is better to err than is necessary, than to plant too err on the side of planting a little deeper. A good rule to follow is to set the plants at least an inch deeper than they were in the nursery. The soil should be well tramped about the young plants to prevent the danger of it drying out. After planting the soil should be levelled and the surface loosened to help retain moisture.

Cultivation.

As the currant, to do well, must have a good supply of moisture, cultivation should be begun soon after planting, and the surface soil kept loose during the summer. While the plants are young the cultivation may be fairly deep in the middle of the rows, but when the roots begin to extend across the rows, cultivation should be quite shallow, as many of the roots are quite near the surface.

Fertilizers.

Currants are heavy croppers if the soil is kept rich, hence, to maintain an abundant and regular supply of food for the plant, applications of manure or top dressings of manure, preferably well rotted, should be given. When only a light application of manure is given, the addition of two or three hundred pounds per acre of muriate of potash should be very beneficial. Wood ashes also make a good fertilizer with barnyard manure. There is little danger of giving the currant plantation too much fertilizer. Unfortunately it is usually the other way, this fruit being often very much neglected. When in full bearing currants should be fertilized every year.

Pruning.

The black and red currants bear most of their fruit on wood of different ages, hence pruning should be a little different from the other. The black currant bears most of its fruit on wood of the previous season's growth. Hence it is important to always have a plentiful supply of one-year old health wood. The red and white currants produce their fruit on wood of the previous year, and two or more years of age, hence it is important in pruning red and white currants to have a liberal supply of wood two years and older, but as the fruit on the very old wood is not so good as that on the younger, it is best to depend on the wood of the previous year, and to prune the currant so that the fruit of the previous year is not cut out. A little pruning may be necessary at the end of the first season after planting in order to begin to get the bush into shape. From six to eight main stems, or even less, with their side branches will, when properly distributed, bear a good crop of fruit. Hence pruning should be done with the aim of having from six to eight main branches each season and a few others coming on to take their places. By judicious annual pruning the bush can be kept sufficiently open to admit light and sunshine. A good rule is to cut out any of the branches more than three years of age, and if kept down to this limit the wood will be healthier, stronger growth will be made and the fruit will be the better.

When to Renew the Plantation.

A currant plantation will bear a great many good crops if well cared for, but if it is neglected the bushes lose their vigor in a few years. The grower will have to decide when to renew the bushes, but as a currant plantation can be renewed at comparatively little labor it is best to have new bushes coming on before the old ones show signs of weakness. At least six good crops may be removed with fair treatment, and ten or more if the bushes are kept in rich soil and well cared for. Where one has only a few bushes for home use they may be rejuvenated by cutting each of them down to the ground in alternate years, and thus obtaining a fresh supply of vigorous young wood.

Black Currants.

There are not so many black currants grown in Canada as red, but there is at steady demand for them, and it is believed there will be an increasing demand as they become better appreciated. The black currant makes excellent jelly, and the merits of black currant jam have long been known.

Red and White Currants.

The red currant makes excellent jelly, and its popularity is largely due to the fact that a large quantity of red currant jelly is made every year in Canada. Red currants are used to a lesser extent for pies and as jam, and are also eaten raw with sugar. As a fruit for eating out of hand the red currant is not very popular, but there are a few fruits so refreshing and better adapted for eating raw than most. The red currant does not vary as much in quality as the black. Red currants will remain in condition on the bushes for some time after ripening, hence do not have to be picked as promptly as the black. (Continued next week.)

ROYAL YEAST CAKES

There is more energy in a pound of good bread made in the home with Royal Yeast Cakes than in a pound of meat. Bread making is a simple operation and requires no previous experience. Full instructions in Royal Yeast Bake Book, mailed free on request.

E. W. GILLET CO. LTD. TORONTO

RICE POLISH.

It is not generally known that the rice grain of commerce, with its smooth, pearly lustre, has been artificially polished to give it this appearance. It is being believed, rightly or wrongly, that the unpollished cereal would not command so high a price. The powder or flour removed from the grain in this process is called "rice polish" and possesses certain valuable properties. It contains less fat and protein than rice bran, but a higher percentage of starch. It is sometimes used as a stuffing material in the manufacture of sausage. A considerable amount of the polish made in this country used to be exported to Germany, where it was made into rice polish.

Rice polish, when substituted for part of the cottonseed meal in ration for steers, at the Agricultural Experiment Station, resulted in increasing the rate of gain, while the cost of the grain was slightly reduced.

Rural Route No. 1.

Mascouche, Quebec, Oct. 15, 1919.

The Minister of the Interior, Ottawa.

Sirs—I feel that I should be doing a wrong if I neglected to write you. I have had four tumors growing on my head for years. I had them cut off by a surgeon about fifteen years ago, but they grew again till about three months ago I had one as large and shaped like a lady's tumbler removed. It was getting so embarrassing in public that it was a constant worry to me. About three months ago I got a bottle of your liniment for another purpose and saw on the label good for tumors. Well I tried it and kept at it for exactly two months, with the result that it has entirely removed all trace of the tumor, and were it not that they had been cut fifteen years ago, no mark would be seen. I have not been asked for this testimonial and you can use it as you see fit.

(Signed) FRED C. ROBINSON.

P. S.—I am a farmer and intend using Minard's Liniment on my mare for a strained tendon, and am hoping for same results.

FRED C. R.

STRANGE LEASES.

For weird leases London would be hard to beat in some instances, says a correspondent. He dealt with houses lately which were for sale and found that the ground landlord was the Duke of Cornwall, the leaseholder paying an annual ground rent of fourpence! And this fourpence was sent every year in an envelope which cost twopence, and it cost the Duke twopence to acknowledge receipt! "But there is a stranger lease in the north of London," he said, "some houses there are leased until the death of the Duke of Connaught. There is no other date attached to the document."

Dragged Down by Asthma.

The man or woman who is continually subject to asthma is unfitted for his or her life's work. Strength departs and energy is taken away until life becomes a dreary existence. And yet this is needless. Dr. J. D. Kellogg's Asthma Remedy has brought a great change to an army of sufferers. It relieves the restricted air tubes and guards against future trouble. Try it.

SAYING IT WITH FLOWERS.

If you consider her, a wise girl, say it with sage.

If you think her cold, say it with snow-drops.

If you desired to marry her, say it with a poppy.

If you know she has a sweet tooth, say it with candytuft.

If she impresses you as a sad girl, say it with rue.

If she is of a happy, joyous nature, say it with gladiolus.

If she seems a prunes and prisms sort of girl, say it with primula.

If you think her a sour, sharp-tongued old maid, say it with snapdragons, catnip and a century plant.

Warts on the hands is a disfigurement that troubles many ladies. Holroyd's Corn Cure will remove the blemishes without pain.

Removal of the headquarters of the League of Nations to Geneva was carried into effect, the main body of the secretariat, numbering 200, leaving London by special train.

WEEKS' BREAK-UP-A-COLD TABLETS TRY THEM PRICE 25¢

THE TREASURE OF GOOD HEALTH

ALL MONEY DUE ON LOANS WAS PAID EXCEPT A VERY SMALL PERCENTAGE.

It is announced that war veterans settled on the land in Ontario under the Soldier Settlement Board plan have made payments of interest and principal amounting to \$226,772. The amount due on the date was \$222,675. Seventy per cent of the 1,142 soldier farmers, whose payments were due, promptly met their obligations amounting to \$125,045, and the balance was made up by 85 settlers who paid off their entire loans or a considerable portion of them in advance.

The Soldier Settlement Board also has received interim reports from its other branch offices throughout the country, showing that its settlers are generally meeting their payments promptly. The total amount received by the Board so far from its settlers is over one million dollars and expectations are that this figure will be considerably increased.

The large number of settlers who are repaying in full their stock and equipment loans, which run for six years, is a very gratifying feature of the reports.

Board officials express great satisfaction with results following the first year period that splendid progress is being made and that the great majority of soldier settlers will make good.

A Wonderful Discovery Cures Catarrh Permanently

Formerly doctors prescribed stomach treatment for Catarrh and Bronchitis. They seldom cured and Catarrh has become a national disease. Today the advanced physician fights Catarrh by medicated air. He fills the lungs, nose and throat with the antiseptic vapor of Catarrhose. It is easy then for Catarrhose to cure. It contains the essences of pure pine balsams, reaches all the germs and destroys the disease. Every case of Catarrh, Bronchitis and Sore Throat can be cured by Catarrhose. The dollar outfit lasts two months and is guaranteed to cure; small size 50¢; trial size 25¢. All dealers or Catarrhose Co., Kingston, Ont.

PHANTOM PARIS.

Perhaps the strangest as well as the most elaborate examples of camouflage which the war produced, says a correspondent, was a plan to construct a phantom Paris on a spot many miles from the capital to deceive German aviators and to attract the bombs which might otherwise kill hundreds of people. This scheme was about to be carried out when the armistice made it no longer necessary. The difficulties of execution were great. It was first of all necessary to find on the map places of which the general configuration resembled those of Paris. It was necessary to utilize a bend of the Seine like that which crosses the capital, but it was also necessary that the zones to be designated for enemy bombardment should be in localities having but few inhabitants.

RAILROADS IN PERSIA.

Persia has two railroads. One running from the Caucasus into Tabriz for Russian trade is not running. The other is a little 6-mile stretch running from Teheran to the buried city of Rai, which some enterprising Persian built and then became bankrupt. It was attempted to sell this line to a grandee who went for an experimental ride upon it. As the route to Rai is downhill the train was allowed to run by its own momentum. Coming back it travelled by steam. The grandee observed the journey attentively.

"How did we run down?" he inquired.

"Force of gravity," he was told.

"We went down in eighteen minutes," observed the grandee. "It took us thirty-five to steam back. If the train runs more quickly without steam than with it I should be very foolish to buy it."

THE BEST LIVER PILLS.—The action of the liver is easily disarranged. A sudden chill, under exposure to the elements, over-indulgence in some favorite food, excess in drinking, are a few of the causes. But whatever may be the cause, Parmelee's Vegetable Pills can be relied upon as the best corrective that can be taken. They are the leading liver pills and they have no superiors among such preparations.

TRADE IN OLD NEWSPAPERS.

Some idea of the magnitude of the trade in second hand newspapers is contained in a report by Carl O. Spamer, consul at Medan. In 1915 the imports of second hand newspapers into Sumatra were 1,597,878 pounds; in 1916, 744,591 pounds; in 1917, 1,036,368 pounds; in 1918, 868,835 pounds; in 1919, 1,225,645 pounds; in 1920, from January to May, 1,044,107 pounds. These newspapers are largely used by Chinese tradesmen for wrapping and packing goods for local delivery. The markets demand clean full-sized newspapers, without colored supplements, packed in bales of 250 kilos (about 550 pounds).

A safe and sure medicine for a child troubled with worms is Mother Graves' Worm Exterminator.

EASILY MAINTAINED THROUGH USE OF DR. WILLIAMS' PINK PILLS.

There is not a nook or corner in Canada, in the cities, the towns, the villages, on the farms and in the mines and lumber camps, where Dr. Williams' Pink Pills have not been used, and from each end of the continent to the other there have come back to bread-winners, their wives and families and splendid treasure of new health and strength.

You have only to ask your neighbors, and they can tell you of some thousands of nerve-shattered men, some suffering with rheumatism, and some anemic girl who once present health and strength to Dr. Williams' Pink Pills. For more than a quarter of a century these pills have been known not only in Canada, but throughout all the world, as a reliable tonic, blood-making and health restorer.

The wonderful success of Dr. Williams' Pink Pills is due to the fact that they go right to the root of the disease in the blood, and by making the vital fluid rich and red strengthen the organs and every nerve, thus driving out disease and health restorer. The blood-making and health restorer, the wonderful success of Dr. Williams' Pink Pills is due to the fact that they go right to the root of the disease in the blood, and by making the vital fluid rich and red strengthen the organs and every nerve, thus driving out disease and health restorer.

Dr. Williams' Pink Pills should be kept in every home, and there occasional use will keep the blood pure and ward off illness. You can get these pills through any medicine dealer, or by mail at 50 cents a box or six boxes for \$2.50 from The Dr. Williams' Medicine Co., Brockville, Ont.

A HOUSE OF HEARTS.

"A hearty" home is that of the wife of a doctor in California. The tables, chairs, etc., in fact, all the furniture of the peculiar house, is heart-shaped. The owner's bed has a heart-shaped headboard supported on both sides by pedestals carved to represent Cupid's arrows. The headboard and bedboard is decorated with a heart-shaped picture frame in which two angles embrace each other! The remarkable house is named the "Pericardium," which means the membrane enclosing the heart and the great blood vessels.

No better protection against worms can be got than Miller's Worm Powders. They consume worms and render the stomach and intestines untenable to them. They heal the surfaces that have become inflamed by the attacks of the parasites and serve to restore the stomach and the child that has been undermined by the draughts that the worms have made upon it, and that their operation is altogether health-giving.

It Makes New Friends Every Day.

Not a drop goes by Dr. Thomas' Electric Oil does not widen the circle of its friends. Orders for it come from the most unlikely places in the west and far north, for its fame has travelled far. It deserves this attention, for no oil has done so much for humanity. Its moderate cost makes it easy to get.

Necessity for the introduction of a proper telegraphic and telephonic system throughout the Highlands and Islands is urged in a report of the Rural Transport (Scotland) Committee just issued.

California was believed by the early Spanish explorers to be an island of Amazons.

I SUFFERED FIVE YEARS

Finally Was Restored to Health by Lydia E. Pinkham's Vegetable Compound.

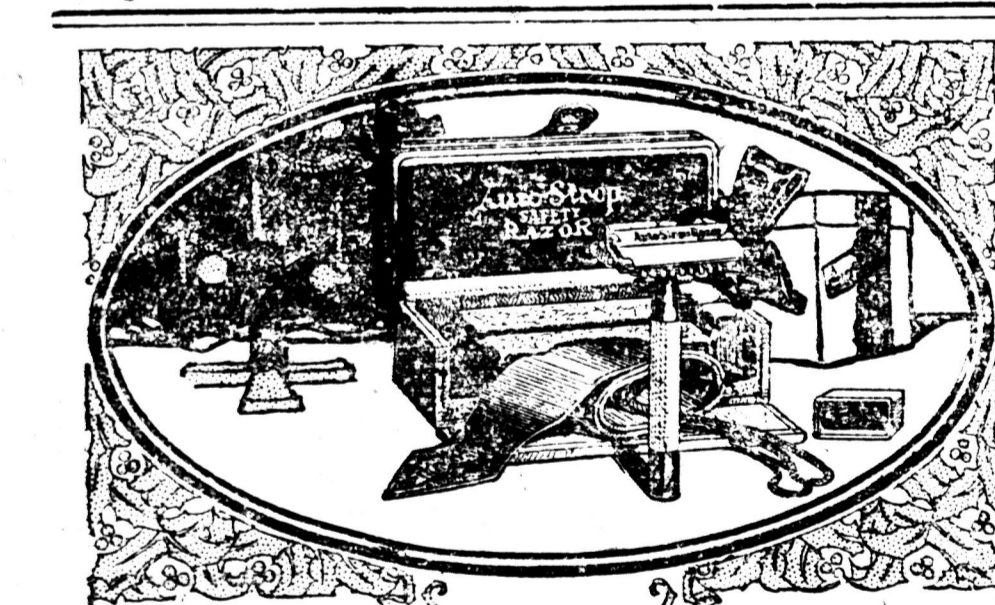
Paris, Ont.—For five years I suffered from the disease caused by displacement of my organs and in my back. All of this time I was unfit for work and was taking different medicines that I thought were good. I saw the advertisement in the papers of Lydia E. Pinkham's Vegetable Compound and took it faithfully. I am now in perfect health and do all my own work. I recommend it to others, and give you permission to publish this letter in your little book and in the newspapers as a testimonial.

—Mrs. D. CASSADY, Box 461, Paris, Ont.

Why women will continue to suffer so long is more than we can understand, when they can find health in Lydia E. Pinkham's Vegetable Compound!

For forty years it has been a standard remedy for females, and has restored the health of thousands of women who have been troubled with such ailments as displacements, inflammation, ulceration, irregularities, etc.

If you want special advice write to Lydia E. Pinkham, Medicine Co. (confidential), Lynn, Mass. Your letter will be opened, read and answered by a woman and held in strict confidence.



A gift he will appreciate

NO matter what kind of a razor a man uses now, he will welcome and enjoy the clean shaves he will get from his AutoStrop Razor.

He will like the self-stopping device that gives him a fresh new shaving edge each day; he'll be glad of the simplicity that enables him to clean his AutoStrop Razor without taking it apart; above all, he will be apt to boast of the way in which the AutoStrop blade removes his tough, barbed-wire beard (and he's secretly proud of that, you know) without the slightest pull or irritation.

Every day of his life he will have reason to be grateful for his AutoStrop Razor—a gracious and continual reminder of your thoughtfulness.

AutoStrop Razor

—sharpens itself

On sale at all drug, jewelry and hardware stores, the AutoStrop Safety Razor is priced at \$5 and up, for razor, strap and 12 blades. Sold always and everywhere with a money-back guarantee.

AUTOSTROP SAFETY RAZOR CO., LIMITED
AUTOSTROP BUILDING, TORONTO, CANADA

Our Razors, Straps, Blades, etc., are never manufactured by us as we shall apply the trade mark "AutoStrop" in addition to the trade mark "AutoStrop" as an additional indication that they are the genuine products of the AutoStrop Safety Razor Co., Limited, Toronto, Canada.

IN THE ARCTIC.

has broken out of the fair north. A report that dance the spare moments and that a great of ice, has been in Gulf, for a dance

was the only or- to be elected presi- States.