

Making the Little Farm Pay

By C. C. BOWSFIELD



NO reader of this department need fear that purely theoretical farming is urged at the expense of practical methods. These articles are written for the benefit of established landowners as well as amateurs, and much commendation has come from experienced men who realize the shortcomings of ordinary farming.

For instance, while I urge the advisability of growing fruit in localities which have the advantage of good markets, I should dislike to see farmers in the central states or anywhere else devote themselves to this single industry. That would be about as foolish as exclusive grain raising or dairying. The orchard belongs in a scheme of mixed farming, together with poultry and hogs.

Important facts for fruit growers are that orchard land may be made to pay double and the fertility of the soil maintained without extraordinary effort. While the trees are coming to maturity land earns nothing for five or six years unless there is a plan of vegetable raising, when a return of \$100 an acre is easily secured and the soil is benefited by the necessary cultivation. Unless such a system of cropping is established a nonbearing orchard is apt to be neglected, and this results in waste of time, investment and land.

The cultivation of vegetables or small fruit in an orchard is therefore for the purpose of securing immediate profits and keeping up the quality of the soil. It goes further than this, however, for it makes the land return a living income even in unfavorable fruit seasons, when late frosts, insect pests or other destructive agencies have spoiled the apples, pears, plums and cherries.

Apple and cherry trees should be planted thirty feet apart; plum, pear and peach trees twenty to twenty-five feet apart. The trees need to stand in straight rows to permit the free use of a horse cultivator in the vegetable and berry patches. One of the most common mistakes in farming is to plant trees too near together.

Nitrogen, phosphorus and potassium are necessary for the fertilization of fruit trees and plants in general. Nitrogen can be obtained in stable manure, but the principal source is air, and we may obtain it by growing legumes. Vegetable gardening carried on with the aid of barnyard manure is an excellent treatment for orchard land. Phosphorus may be obtained by the use of raw rock phosphate or bone-meal. Potassium is contained in large amounts in our ordinary soils in a more or less unavailable state. To get more potassium in such a shape that the plants can use it we can either apply soluble potassium salts or unlock that which is already present in abundance. Experiments have shown that it does not pay to apply potassium to ordinary soils, provided decaying organic matter in the form of manure or cover crops is worked into the soil. The decaying organic matter will liberate the potassium.

It may be generally known that apples are about as hard on land as wheat or corn, except they do not take from it as much phosphorus. A 425 bushel apple crop will remove from the soil about the same amount of nitrogen and potassium and half as much phosphorus as fifty bushels of corn or twenty-five bushels of wheat. Therefore a thorough system of gardening not only makes the orchard land do double duty, but restores the soil fertility.

If for any reason gardening cannot be carried on in a thorough way in an orchard I should recommend legumes in place of manure as the source of nitrogenous organic matter. It is shown that a cheap way to grow legumes is to apply ground limestone and rock phosphate. The cost of this treatment would not exceed \$2 per acre per year, which should not seriously interfere with this system of fertilization.

POTATO NOTES.

To secure an early supply of new potatoes next season plant the tubers of any good early variety in pots and start them in the house. Four or five inch pots can be used, filled only about two-thirds full of soil, leaving room for a top dressing of soil to be supplied as the plants grow, after the manner of hilling up potatoes when grown in the garden. One potato is sufficient for each pot.

Time the planting so the plants will be well started in the pots when they are to be transplanted in the garden at the time the tubers are usually planted outdoors.

If there is a well ventilated, cool, light place, such as a cold frame or cool greenhouse, in which to grow them potatoes can be raised in pots and full sized tubers developed very much earlier than the first crop from the garden.

Ten inch pots will be sufficiently large. Rub off all the eyes except the strongest for pot culture.

ALFALFA A MONEY MAKER.

Success in Assured if Proper Directions Are Followed.

By H. D. HUGHES,

Chief of bureau of farm crops, Iowa agricultural experiment station.

Success does not always come with first attempts with alfalfa, but that should not be discouraging. The percent of failures in securing a stand of alfalfa is not so great as with many other crops commonly grown. Very simple measures turn failure to success. For instance, in a number of cases where the seedling of alfalfa failed without inoculation, the mere addition of 300 pounds per acre of soil from an alfalfa field or from a sweet clover patch brought success. After inoculation the soil produced a fine growth of alfalfa. In other sections of the state, particularly in the south-central, the application of from 1,500 pounds to 3,000 pounds of lime per acre brought success when various other trials without lime failed.

Perhaps the most important thing in securing a stand of alfalfa is the liberal use of manure even on soils above the average in fertility. Its application before plowing has increased



AN IOWA ALFALFA FIELD.

the yield of alfalfa notably. On all soils below the average the use of manure has been absolutely essential to securing a satisfactory stand and yield.

In buying alfalfa seed, as in buying seed for other crops, the highest priced seed is usually the cheapest. In order that the seed may all be sowed under proper conditions for germination, it should preferably be put in with an ordinary grain drill, and in average soil covered to a depth of about one inch. To distribute the seed uniformly it is a good plan to set the drill so as to sow only about ten pounds per acre and then to go over the land twice—for example, crossing the field north and south first and then east and west.

There has been much discussion regarding the variety of alfalfa best suited to Iowa conditions. Since the percent of winter killing has been comparatively low and seed of the hardier varieties is very high priced and also uncertain as to purity the only variety which can well be recommended for general use is that known as the common American. This is grown almost altogether in such states as Kansas and Nebraska. Seed grown on nonirrigated land, under conditions so nearly as possible the same as are found in Iowa, is usually preferable.

No hay should be removed the year that the alfalfa is seeded. Spring seeding may be clipped once or twice when necessary to keep down the weeds, but a good growth should cover the ground when freezing weather comes on in the fall.

Usually the alfalfa should be cut when about one-tenth of the heads are in bloom, which generally is early in June, as this is about the time that the new shoots begin to appear at the bottom of the stalk.

Much has been said regarding the difficulty of handling and curing the first cutting, but reports from those men in Iowa who have the largest acreages state that alfalfa is not more difficult to cure than red clover. A number have said that it is easier to cure.

Various methods of curing have been used successfully. In dry, sunny weather alfalfa cut one afternoon may be raked the following day, put in bunches and much of it stacked the same day.

It is important that as few of the leaves as possible be lost. In order to save the leaves many growers rake the alfalfa into windrows as soon as it has wilted and before the leaves are dry, bunch the hay with a rake as soon as dry enough to stack and haul it at once. This method also eliminates the labor of coking the hay, a feature which has been found desirable by a number of men who handle large acreages.

Where one has much alfalfa hay to cure a side delivery rake will be found to be of the greatest value.

Where the hay is to be coked it is cut late in the afternoon and put in cocks in the afternoon. Here it should be left for two or three days. The use of hay covers assures one of little difficulty in curing even the first cutting and produces a hay of very excellent quality.

The Care of Eggs.

The perishable nature of an egg is too little understood. Dampness, heat above 60 degrees, strong odors, drafts, delay in marketing, are factors which very quickly destroy freshness and good quality of eggs.

Protect Small Trees.

See that the grass is pulled away from the base of small trees. Better put wire protectors about them so mice or rabbits cannot injure them during the winter.

Judge L. T. Harris

Judge Lawrence T. Harris, candidate for one of the republican nominations for Justice of the Supreme court, was born September 13th, 1873, at Albany, Oregon; graduated from the University of Oregon in 1893, and from the law department of the University of Michigan in 1896; represented Lane county in the Legislature in 1901 and 1903; was elected speaker of the House in the session of 1903, and although the session was a



JUDGE L. T. HARRIS

streuous one no appeal was ever taken from any ruling made by him as speaker of the House; practiced law in Eugene from 1896 to 1905 when he was appointed Circuit Judge to fill a newly created office in the second Judicial District; in 1906 was nominated in the primaries without opposition and at the general election was elected without opposition to the same office; and in 1912 after serving six years more was nominated in the primary election by both the republican and democratic parties without opposition and elected without opposition. Ballot slogan: "Continue impartially to uphold the law and justice without fear or favor."

REPUBLICAN VOTERS SHOULD BEWARE

Party Should Be Represented on National Committee By a Republican

The Republicans of Oregon are entitled to have a Republican named as the National Republican Committeeman from this State. C. W. Ackerson, who claims to be a Republican, is a candidate. He registered as a Progressive January 8, 1914. Then signed petition of H. W. Coe to be Progressive National Committeeman. Then cancelled his registration as a Progressive and registered as a Republican and immediately filed his candidacy for membership on Republican National Committee. Has been an intimate and convenient understudy of the Progressive National Committeeman and seems now to be in combination with him in an attempt to shanghai the Republican organization. His candidacy is being actively backed by parties hostile to the Republican party and having personal interests and private personal grudges to serve. His erratic and excitable temperament has frequently led him to flood the columns of the press with violent attacks upon the Republican party and vicious personal abuse of prominent Republicans and life-long residents of the State.

It is a grave abuse for parties who are not Republican to register as such. It is a graver abuse for outsiders to attempt the capture of a political party to gratify a personal grudge and to promote party discord. It is an abuse against which fair-minded men of all parties will rise in protest. We can never have a reunited party by pushing to the front political hotbeds and men who are political reformers simply for the sake of office. Having been a Republican only twenty-four hours when he announced his candidacy for the highest honorary position in the gift of the party, is some indication of what Mr. Ackerson's motive was in registering as a Republican. As Hon. Ralph E. Williams is the only Republican who is a candidate for Republican National Committeeman, we feel warranted in urging all loyal Republicans in the state to give him their earnest and enthusiastic support.

CHAS. B. MOORES,

(Chairman of Republican State Central Committee.)

M. B. McFAUL,
(President Lincoln Republican Club.)
McKINLEY MITCHELL,
(President of Portland Republican Club.)

C. M. IDLEMAN,
(President Multnomah Republican Club.)

Summons

In the circuit court of the state of Oregon for Crook county.

Crook County, Oregon, a public corporation, plaintiff,

vs.

John Arnieker, Ashwood Gold Mining Co, S A Bakley, S H Barnes, C C Buchanan, C C Butler, G F Callihan, Hulda Carson, H E Chaffee, Frank D Chapman, S W Compton, E F Cooper, John W Crooks, M Donaldson, Catherine Dwyer, Elmira Ferguson, Ida A Finch, Chas Fosberg, L R French, H W Gamble, B Gildner, Joseph W Gleesner, E T Holmes, Chas F Holt, Eva Johnson, D B Kelley, Irvine & Hamilton, J W Jones, Laidlaw Banking & Trust Co, W A Lamb, Geo P Lee, W Lord, F M Loveland, W W Mackey, H E Miller, Lettie Miller, Elsie Milligan, A M Minkler, J M Montgomery, H K Allen, Columbia Valley Trust Co, Mary Ferguson, Fletcher & Croup, W F Hammer, W W Harris, E J Lane, Mayfield Bros, J W McCollum, Jall McCollum, McTaggart & Bye, Mrs M J Price, W F Myers, John McCormick, T McCoy, T H McGhee, C C McNeely, Perry W Newbill, C P Nelson, T R Raborn, J S Rannells, D P Rea, Reed & Steidl, Tom Reilly est, A T Rendle, P B Reynolds, Redmond Townsite Co, O E Sandy, Sanford & Rodman, D P Shrum, Simpson & Wilson, J F Staley, Julia Steidl, Nettie Stevenson, J O Storey, John Sismore, The Central Oregon Banking & Trust Co, Pilot Butte Del Co, C M Triplett, Henry Tweet, R B Vaughn, Harry G Webb, A E Wiener, J F Welburn, G W White, W C Willis est, John Sismore, G E Smith, J C Stiles, Wm G Stiles, Laconia Stiles, J P Strickler, Chas Tedford et al, Warner & Burnett, and all persons unknown owning or claiming to own, or having or interest whatever in the real property hereinafter described, defendants.

To John Arnieker, Ashwood Gold Mining Co, S A Bakley, S H Barnes, C C Buchanan, C C Butler, G F Callihan, Hulda Carson, H E Chaffee, Frank D Chapman, S W Compton, E F Cooper, John W Crooks, F M Donaldson, Catherine Dwyer, Elmira Ferguson, Ida A Finch, Chas Fosberg, L R French, H W Gamble, B Gildner, Joseph W Gleesner, E T Holmes, Chas F Holt, Eva Johnson, D B Kelley, Irvine & Hamilton, J W Jones, Laidlaw Banking & Trust Co, W A Lamb, Geo P Lee, W Lord, F M Loveland, W W Mackey, H E Miller, Lettie Miller, Elsie Milligan, A M Minkler, J M Montgomery, H K Allen, Columbia Valley Trust Co, Mary Ferguson, Fletcher & Croup, W F Hammer, W W Harris, E J Lane, Mayfield Bros, J W McCollum, Jall McCollum, McTaggart & Bye, Mrs M J Price, W F Myers, John McCormick, T McCoy, T H McGhee, C C McNeely, Perry W Newbill, C P Nelson, T R Raborn, J S Rannells, D P Rea, Reed & Steidl, Tom Reilly est, A T Rendle, P B Reynolds, Redmond Townsite Co, O E Sandy, Sanford & Rodman, D P Shrum, Simpson & Wilson, J F Staley, Julia Steidl, Nettie Stevenson, J O Storey, John Sismore, The Central Oregon Banking & Trust Co, Pilot Butte Del Co, C M Triplett, Henry Tweet, R B Vaughn, Harry G Webb, A E Wiener, J F Welburn, G W White, W C Willis est, John Sismore, G E Smith, J C Stiles, Wm G Stiles, Laconia Stiles, J P Strickler, Chas Tedford et al, Warner & Burnett, and all persons unknown owning or claiming to own, or having or interest whatever in the real property hereinafter described, the above named defendants:

In the name of the state of Oregon, you are hereby notified that Crook County, Oregon, a public corporation, the holder of Certificates of Delinquency numbered C 101 to C 198, saving and excepting numbers C 141, issued on the 20th day of April, 1914, by the Tax Collector of the county of Crook, state of Oregon, for the amount of Two thousand nine hundred thirty-one and ninety-nine hundredths (\$2931.99) Dollars, the same being the amount then due and delinquent for taxes for the year 1908, together with penalty, interest and costs thereon upon the real property assessed to you, of which you are the owner as appears of record, situated in said county and state, and particularly bounded and described as follows, to-wit: Lot 2, blk 40, Palmaln, e½ sec 2, tp 19, r 13, e½ sec 3, tp 19, r 21, w½ sec 4, tp 19, r 21, e½ sec 5, tp 19, r 21, w½ sec 6, tp 19, r 21, e½ sec 7, tp 19, r 21, w½ sec 8, tp 19, r 21, e½ sec 9, tp 19, r 21, w½ sec 10, tp 19, r 21, e½ sec 11, tp 19, r 21, w½ sec 12, tp 19, r 21, e½ sec 13, tp 19, r 21, w½ sec 14, tp 19, r 21, e½ sec 15, tp 19, r 21, w½ sec 16, tp 19, r 21, e½ sec 17, tp 19, r 21, w½ sec 18, tp 19, r 21, e½ sec 19, tp 19, r 21, w½ sec 20, tp 19, r 21, e½ sec 21, tp 19, r 21, w½ sec 22, tp 19, r 21, e½ sec 23, tp 19, r 21, w½ sec 24, tp 19, r 21, e½ sec 25, tp 19, r 21, w½ sec 26, tp 19, r 21, e½ sec 27, tp 19, r 21, w½ sec 28, tp 19, r 21, e½ sec 29, tp 19, r 21, w½ sec 30, tp 19, r 21, e½ sec 31, tp 19, r 21, w½ sec 32, tp 19, r 21, e½ sec 33, tp 19, r 21, w½ sec 34, tp 19, r 21, e½ sec 35, tp 19, r 21, w½ sec 36, tp 19, r 21, e½ sec 37, tp 19, r 21, w½ sec 38, tp 19, r 21, e½ sec 39, tp 19, r 21, w½ sec 40, tp 19, r 21, e½ sec 41, tp 19, r 21, w½ sec 42, tp 19, r 21, e½ sec 43, tp 19, r 21, w½ sec 44, tp 19, r 21, e½ sec 45, tp 19, r 21, w½ sec 46, tp 19, r 21, e½ sec 47, tp 19, r 21, w½ sec 48, tp 19, r 21, e½ sec 49, tp 19, r 21, w½ sec 50, tp 19, r 21, e½ sec 51, tp 19, r 21, w½ sec 52, tp 19, r 21, e½ sec 53, tp 19, r 21, w½ sec 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