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# FARM AND ORCHARD

Notes and Instructions from Agricultural Colleges and Experiment Stations of Oregon and Washington, Specially Suitable to Pacific Coast Conditions

## HOW TO KILL GARDEN PESTS.

Ways to control the common pests of the vegetable and flower garden are described in a new bulletin which is in preparation for publication by W. F. Wilson, assistant entomologist at the Oregon Agricultural College.

"Destructive insects secure their food either by eating portions of plants, or by sucking the juices therefrom," says Mr. Wilson. "The first general group are controlled by food poisons taken into the stomach, the second by contact or external insecticides.

"The internal insecticides are divided into two groups which may be termed the wet and dry sprays. The wet sprays consist of arsenicals applied with water or lime-sulphur as a distributing agent.

"About the only one in use at the present time is arsenate of lead, which, when properly made and unadulterated, is efficient and does not burn the foliage, as Paris green sometimes does. For ordinary use, two pounds of arsenate of lead to fifty gallons of water is effective. At times it is necessary to use five pounds of arsenate of lead to fifty gallons of water, as some insects do not readily succumb to a small amount of the poison.

"The dry sprays are applied in a powdered form, and there are a number of these on the market, including several brands of powdered arsenate of lead, Paris green and arsenate of lead, when pure, are efficient as any, although at the present time Paris green is more in use than the other. Paris green applied to plants in an unadulterated condition may seriously burn the foliage. To obviate this difficulty it should be mixed with 20 or 25 pounds of air-slaked lime, fine road dust or wheat flour for every pound of the Paris green. This may be applied with a dust gun or sifted on the plants by means of a gunny sack. Hellebore in a powdered form and fresh is valuable for poisoning such insects as injure small fruits or vegetables which are nearly ready for market and thus are too far advanced for poison to be desirable. It should be dusted over them when they are wet with dew.

## FARMER NEGLECTS FINANCIAL SIDE.

"The financial side of farming, the world's greatest industry, is almost entirely neglected by both the farmer and the schools," says Dean J. A. Bexell, of the Oregon Agricultural college, author of a volume on "Farm Accounting and Business Methods," now in its sixth thousand.

"Professor Bailey, of New York, said, in discussing the matter of his own state: 'In visiting practically every farm in one of the counties of the state, we did not find one man who knew how much it cost him to produce milk or to raise any of his crops.'

"The secretary of agriculture, in recent year books, points out the remarkable prosperity of the farmer; that the export of farm products is vastly in excess of all other exports combined; that a million agricultural debtors have been transformed during the last ten years into the same number of surplus depositors; that 'contrary to his reputation, the farmer is a great organizer, and has achieved remarkable and enormous successes in many lines of economic co-operation in which the people of other occupations have either made no beginning or have nearly, or not completely, failed.' He points out that most farmers live better than the average merchant or mechanic.

"It is doubtless true that the farmer is becoming a factor to be reckoned with in the business world; that the average farmer knows vastly more about scientific farming than his father did. He understands more thoroughly the value of proper cultivation, of fertilization, of rotation of crops, and of diversified farming. But it cannot be said that he owes his success to improved business methods. He has been successful, rather in spite of his ignorance in this respect, and because of the lavish generosity of mother nature."

## WHAT FRUIT FOR EASTERN OREGON?

"Care should be exercised in the selection of varieties of fruit for planting in Eastern Oregon," says Prof. C. L. Lewis, of the Oregon Agricultural college horticultural department, "since the higher elevations of that part of the state suffer more or less from the severity of the winter and the drought in summer.

"As to apples, the Russian varieties will be the hardest. These in low altitudes are summer and fall varieties, but often in high altitudes they are long keepers. The Red Astrachan, Gravenstein, Duchess, Wolf River, Wagoner and Macintosh Red are the best and most satisfactory to plant.

## Now He Got It.

Wilkins—That chap lives on the fat of the land.  
Miller—So?  
Wilkins—Sure. He's a manufacturer of obesity remedies.—Judge.

## Enough to Frighten One.

Tommy—Does your papa frighten you when he tries to make you go to sleep?  
Ethel—Yes; he stings to me!—Yonkers Statesman.

Occasionally nearly any of the standard varieties grow sufficiently well for family use. Varieties of some promise in such sections are the Rome Beauty, White Winter Pearmain, Delicious and Gano.

"The fancy varieties of pears I would suggest for the region are the White Doyenne, Seckle, Clapp's Favorite. Peaches as a rule should not be grown in the higher elevations of Eastern Oregon, but occasionally such varieties as Alexander and Amsden do very well. The Gobb's apricot is often successful."

The four kinds of cherries suggested by Prof. Lewis are the Lambert and Bing sweet cherries, and Early Richmond and Olivette for sour ones. Two varieties of raspberries—Guthbert and Turner's Red—are named as good, and any of the standard varieties of blackberries, such as Kittatinny, Lawton, and Eldorado, may be grown. Red Jacket and Champion gooseberries, and Bederwood, Warfield, and Clark's Seedling strawberries are also mentioned.

## COMMERCIAL VALUE OF DWARF FRUITS.

"The dwarf fruit as a commercial proposition is still in an experimental condition in this state," says Prof. C. L. Lewis, horticulturist of the Oregon Agricultural college, in a recent discussion of the fruits of the state. "The dwarf pear," he continued, "looks quite promising to be used in plantings by itself or as a filler.

"There is one dwarf pear orchard in Idaho, and a number in this state, but few are in bearing as yet. The trees can be planted close together. They come into early bearing, and generally produce a fine crop. They are generally worked on Angers Quince or Portuguese stock, and then worked over to Duchess and Koonce, and finally worked over to whatever variety is desired.

"The dwarf pear is obtained by using a root that is slow growing and then pruning. The pruning should be done in such a way as to throw out the laterals and spurs. Summer pruning is practiced much more with the dwarf stock than with the standard.

"Dwarf peaches are also being grown; these come into bearing quite heavily the first year. There are several plantings in this state, and it will only be a short time before we will know more of these.

"The dwarf apple has been tried very sparingly. When it is put on Paradise stock it is more of a curiosity, but when planted on the Doucin stock it may make a satisfactory tree for Western Oregon.

"The dwarf fruit offers a splendid opportunity for a home garden, and a good conservative field for trial in the commercial orchard."

## TO PREVENT FOREST FIRES.

Corvallis, Or.—E. O. Sieck, of the O. A. C. forestry department, has just accepted appointment as assistant state forester, and upon completion of his instructional work at the college will go to Salem to make his headquarters there. The state forestry department has already begun the organization of the fire protection throughout every county of the state, so as to minimize the severe losses suffered annually through fire catastrophes.

## FASHION HINTS

Our sketch shows an attractive way to make up a bordered foulard. The large revers continue over the shoulder and form a sailor collar in back.

## A Serious question.

"Will the discovery of the pole result in any tangible benefit to mankind?"

"I don't know as it will," answered the press humorist. "I doubt if the few new jokes it afforded will offset the raft of good old jokes it put out of commission."—Louisville Courier-Journal.

The Fanning Mill.  
Every farm should have on it a good fanning mill and it should be used

## Improved Type of Comb.

Tonics may be applied as the hair is being combed by a comb invented by a Maryland woman, having hollow, perforated teeth and a reservoir on the back.

## She Knew.

Mother—"The king was in the counting house, counting up his money; the queen was in the kitchen, eating bread and honey." Modern Child—"Must be a fairy story; the cook wouldn't let her."—Harper's Bazar.

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Solid-breech Hammerless REPEATING RIFLE

and the new LESMOK .22 CARTRIDGES

Its appearance often sells it. And—it's as keen a rifle for its size as the most highly developed military arm. Built by expert gunsmiths on the Remington Idea—Solid Breech, Hammerless, Take-down. Shoot Remington-UMC Lesmok .22s. Their accuracy enabled Arthur Hubalek to break World's Record in 100 consecutive shots, scoring 2,484 in a possible 2,500.

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## Two Educations.

We all have two educations, one from others and another, and the most valuable, which we give ourselves. It is the last which fixes our grade in society, and eventually our actual condition in this life, and the color of our fate hereafter. All the professors and teachers in the world cannot make you a wise or good man without your own co-operation; and if such you are determined to be, the want of them will not prevail.—John Randolph.

## Palestine Grows Best Oranges.

The best oranges on the European market are from the land which is said, yet fetches now the highest price for orange culture. There is a jesting phrase among Jewish colonists as to Palestinian Jewish: "If you but stick an umbrella in the soil you will next year get a crop of them." The orange trees bear fruit two months before those of Italy and Spain."

## THE TRUTH ABOUT BLUING.

Talk No. 4.

Liquid bluing is mainly water. Given a half or a cent's worth of bluing and a large bottle filled with water and you have the frail excuse that's called bluing.

Always use RED CROSS BALL BLUE. The best blue anywhere at any price. It does make the laundress smile for a week. Large package 5 cents. AT ALL GOOD GROCERS.

## Mustache Makes for Health.

Dr. Paul Kruger, a well-known physician of Vienna, affirms that the mustache has a distinct value for the health. He believes that its utility lies in protecting the nose against the invasion of dust and bacteria. Recording 600 cases of severe headache and throat and nose trouble among his men patients, he found that 420 of them had their upper lip clean shaven.

## Naturally.

"The attempt to commit suicide is not a punishable offense under the German criminal code. But of course," says a London exchange, "if you succeed you must be prepared to take the consequences."

## Shake Into Your Shoes

Allen's Foot-Ease, a powder for the feet. It cures painful swollen, smarting, sweating feet. Makes new shoes easy. Sold by all Druggists and Shoe Stores. Don't accept any substitute. Sample FREE. Address A. S. Olmsted, Le Roy, N. Y.

## Dirt and Disease.

Dirt is the "perfect culture" of all disease and of all that delights in disease. There the microbes of all plagues live and move and have their being undisturbed by the broom or the mop, unafraid of the smell of soap, and never awakened from their rest by the light from any lamp of knowledge that constitutes the science of modern times.

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## For the Teacher.

In teaching reading there are just two ends to be taught: (1) To make the learner automatic and quick in the recognition of word and letter forms and values; (2) to secure his interest in the content, the spiritual element of the printed forms.

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**IT MAKES WEAK WOMEN STRONG, SICK WOMEN WELL.**

Dr. Pierce's Pleasant Pellets regulate and strengthen Stomach, Liver and Bowels.

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Are demanded these days, but expert Dentistry should not end with Painless methods. After the work is all done you have a right to expect your own teeth to be restored to their former usefulness and beauty, or new teeth that give the same service as healthy ones of your own.

This we accomplish and give a 15-year Written Guarantee to every patient.

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H. L. HUGGINS,  
Weich, Ark.

Personally appeared before me this 20th of September, 1909, H. L. Huggins, who subscribed the above statement and made oath that the same is true in substance and in fact.

W. A. PAGE, J. P.

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