Among the Orchards of the Northwest

A Page of Interesting Advice and Information About Fruits, Large and Small.

To determine the proper time to spray is made easier if you make proper observations. The spraying must be done at the right time to be effective. This article tells you how to make it effective and certain.

.

definitely the time adult moths of the poisonous spray. This first set crop of fruit in a frosty spring, an the Chehalis River. The streams in emerge from the chrysalides. When ealyx spray should be with high presitem of great importance, particularly which the trout were planted will be this is known, then the spraying can sure, aiming to force the liquid into the in the handling of young orchards. be done at exactly the right time to be portion of the calyx cup. Since the most effective. To encourage more cer- eggs of the codling moth have not yet tain methods in fighting the codling been deposited and may not be demoth, by finding out the exact date the posited for some weeks after this sprayadults appear, Prof. T. H. Parks, of ing, the object of this first spray is Idaho, is distributing codling moth to securely lodge this poisonous liquid cages, and in return asks orchardists in the calyx of each apple on the tree. to carefully watch and make note of the date the first and the last codling note that most of the eggs of the codmoth emerges. Each orchardist can ling moth are deposited on the leaves, make a cage for himself.

dow screen wire, and a convenient size for the cage is eight inches in diameter intercept the larvae by the second by twelve or fifteen inches in length. spray, which this time should be a In these cages place the larvae of the fine mist, coating the under and upper codling moth, also place leaves or a bit sides of the leaf. of cloth cover for shelter, and, when the moth has actually emerged, it would be well to add twigs of apple bloom.

Secure Average Temperature.

Place the cages in such position in the orchards as to give an average temperature. It is well to throw weeds for the second spray, which should coat over the cage to partially hide it, les- the leaves just in advance of the laying if she will not produce more than four sening the power of the sun. Since ten of the eggs. cents' worth of material will make a cage, it is well to have two or three of them placed under varied conditions. The writer places three different cages in varying conditions in the orchard.

As the larvae of the codling meth emerges from an apple in late fall, it seeks a place to winter with safety, wintering as larvae or worms. These larvae may winter under a bit of rough bark on the trunk of a tree or in any similar shelter. They are usually of the bloom has fallen. If, on the abundant about packing houses. As the larvae seeks shelter, it weaves over itself a thin web. Here it reposes un-

til springtime. The next step depends on the character of the season and on the earliness with which its place of concealment may warm up. Depending on the spray with reference to that particular character of the shelter, the date of portion of the bloom which in his case pupation may vary fifteen to sixty will set fruit. This varies with days, or more. The next step is for the varieties. larvae to change to the pupae form, called pupating. In cool weather it remains in this form for twenty-one the second brood, about the first of days; in the heated summer a less time, June place burlap bands about the and then emerges as a codling moth.

Before Calyx Closes.

flies at night and mates. Within about band traps the larvae of the first brood four days of the emergence of the will hide to transform into adults. moth, egg laying commences. Each Place a goodly number of these eggs. These eggs hatch in eight or ten brood when the moths are ready to lay careful study to the habits of the cod- quite likely be in the neigh ling moth in Idaho, reports that the the first of July. Since the broods overlarvae may feed one to two days on lap, it might be necessary to spray the foliage before entering the apple, again in the early days of August. brood or while the apple is yet very Snake River and the Boise Valleys we small, 80 per cent of the larvae may have first and second broods only, but enter the apple through the calyx. A that these broods overlap and may conspecial effort should be made to de tique their work even in September. posit some form of poison, preferably arsenate of lead, in the ealyx before young and pruned in different meththe calvx closes. This poison lodged ods, it will be found that in your orchwithin the calyx may poison not only ards that are allowed a large amount

The larvae of the first, but some of the of wood more fruit buds will set at the second brood, since the poison remains age of four, five or six years than orchever it does enter.

Eggs on Leaves.

and the major portion of the petals excessive number of fruit buds, then fish batchery in Seattle and upon arto spray when eight-tenths of the petals teen days. In case of an unfavorable the second was turned out on the south N SPRAYING apples for the codling which to spray before the calyx closes and blooming for the longest period of tween Dryad and Doty, this creek bemoth it is a convenience to know so tightly as to prevent the longest time would be the Careful observers, like Mr. Hurst and that the young larvae may feed a The material used is common win- little on the leaf before seeking the apple. This gives an opportunity to

Moth Cage Is Aid.

To determine the best time for the second spray is the object of the moth time. cage, the careful observation of which ascertains when the moth will be ready to lay eggs and thus determine the time

On the other hand the time of the first spraying is determined by and must be before the calyx closes. White Winter Pearmain blooms earlier than Jonathan or Winesap, Rome Beauty and Rawles' Janet later than either, making a period of ten days or more between the earliest and latest closing of the calvx.

If the season is favorable without other hand, the season has been unfavorable, and the early bloom has been destroyed, and the crop is dependent on the later bloom, then do not spray until the latest bloom has shed its born in the Wichita national forest. petals. The orchardist, therefore, will bringing the berd up to 51. carefully study his own bloom, and will

Study of Trees.

trunks of the older trees, preferably in some old orchard, or in some orchard The codling moth, male and female, sadly infested with worms. Under these female moth is reported to deposit from worms in the moth cage, study their one hundred and fifty to two hundred development, and spray for the second days. B. F. Hurst, who has given very eggs. In the Boise basin that would Some observers report that, of the first Careful observers believe that in the

By studying trees that are old and

in position to intercept the larvae when- ards pruned for large good growth. If ranging from a half-inch to an inch in A skillful orchardist does not spray within a period of a very few days, but den Norton Wynn and his deputies. is usually five to seven days' time in ing the greatest abundance of bloom third was taken to Dunn Creek, be-

Points on Pigs

EEDING and care are as important a runt out of a good pig.

To make pork cheaply a permanent pasture and forage crops must be used. Young pigs must have a dry bed and plenty of sunshine.

Begin feeding the pig as soon as he will eat, and keep him growing until he s mature.

Always keep plenty of clean, fresh water where the hogs may drink any

Quarantine all newly purchased animals for three weeks.

Never keep a female for a brood sow, no matter how well bred she may be, strong pigs at a litter.

The more milk a sow will give the faster her pigs will grow.

Lice prevent a hog from doing well. Always keep a mixture of charcoal, wood ashes, lime, sulphur, salt and copperas before the hogs.

Final Plans For Water System.

What is believed to be the last hitch in the building of the Chehalis gravity loss by frost, spray when eight-tenths water system was straightened out when arrangements were completed for running the Chehalis pipe across the Centralia intake site.

Four buffalo calves have just been

22,000 Rainbow Trout Planted.

Twenty-two thousand rainbow trout, a four or five-year-old tree las com- length were planted in the trout streams paratively few fruit buds, it will bloom of Lewis county, Wash., by Game Waruntil after pollination has taken place if a tree, whether old or young, has an The trout were brought from the state have fallen. In the Yakima district in that tree will continue to come into rival were divided into three equal lots. a favorable season, the rule is to begin bloom for a period of twelve to four. One bunch was freed in Lincoln Creek, have fallen. After the petals fall there spring with frost periods, the tree hav- fork of the Newaukum, while the moth it is a convenience to know so tightly as to prevent the lodgment time would be the tree most likely to ing a tributary to the south fork of closed to fishing for a term of two years.

Plan For Fair in Chehalis County.

The Chehalis county fair will be held at Elma, Wash., September 23-27, according to an announcement by George as the breeding in producing a Simpson, president of the fair associagood hog. Plenty of feed and tion. This is earlier than usual, the good care may make a good hog out of fair having always previously been a runt, but lack of it will always make held in October. The premium list will be issued in July.



Rooms \$1.00 per day up ome with private bath \$2.00 np

TYPEWRITERS

RENT a Typewriter from the manufacturers, \$5 for three months; Remington No. 6 or No. 7; Smith Premier, No. 2 or No. 4; visible Remington, Monarch, Smith Premier, \$3 per month delivered anywhere. Rebuilt machines sold on easy payments.

REMINGTON TYPEWRITER COMPANY.

86 Broadway, Portland. Ore.

Rheumatism

OST of the diseases of the human system are due to impure blood or are aggravated by impure blood. Cleanse the blood of the impurities, "uric acid" and germs which are carried to every part of the body and you reach the root of disease. Sulphurro gets results because of its common sense method; when the blood is in its natural, healthful state, Rheumatism, Skin and Blood Diseases disappear. Sulphurro cleanses, purifies, invigorates and refreshes.

"Sulphurro has done for me what I thought impossible; it has cured my Rheumatism after years of suffering and after I had tried many remedies. Sulphurro alone is entitled to credit for the fact that I now am in perfect health, without an ache or a pain.

"H. B. PETRIDGE, "1546 Market St., Seattle."

SULPHURRO

FOR SALE BY ALL DRUGGISTS-500 AND \$1.00

