# Among the Orchards of the Northwest

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

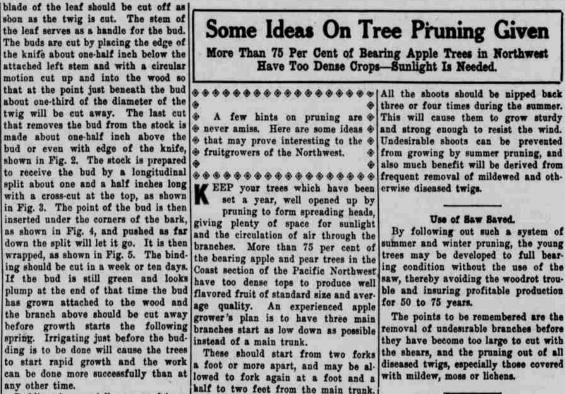


Fig. 1 .- The saw kerf in a stub to be grafted.

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Here is the second of two articles by O. M. Morris and C. B. @ Sprague, horticulturalist and assis- @ tant horticulturalist, on the top- @ grafting of fruit trees.

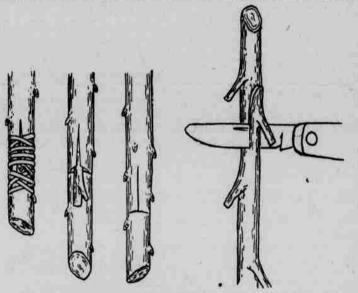
cleft grafting and saw kerf is cut down one side, as shown in Fig. 1. As many scions as are desired may be set in one stub by this method, but it is seldom advisable to set more than two. The



least successful.

## Bridge Grafting.

Orchard trees are frequently girdled by mice and rabbits during the winter. Careless driving in the tillage work in edges of the kerf are cut smooth with the orchard frequently results in marked sharp knife and the scions set and and injured trees. In all such cases



## Fig. 3. Fig. 4. Fig. 5.

Fig. 4 .- The bud just entering the Fig. 2.-The bud ready to cut from the scion wood. split in the bark on the branch being Fig. 3 .- The split and cross-cut in the budded.

mark of the branch to be budded.

graft. Care must be exercised to see bark and not into the wood and is disthat the scions, which are cut as for a covered before the wood is dried, a eleft graft, are fitted firmly in place.

Bark grafting is a form of top grafting that is often used with success on old trees or on large limbs on younger trees. The branch is cut off the

Fig. 5 .- The budding complete, and wrapped. work.

the stub waxed over as in the cleft if the wound extends only through the good dressing of wax or wet clay may

protect the tissue and a new bark be Bark Grafting. formed. If the wound extends into the fections from entering the wounds. wood or the wood is dried, or if the All stubs should be waxed over immediately bark and outer layer of the sap wood trees. The branch is cut off the me as for cleft grafting and the edge as to expose the wound. bridge grafting. This work can be done is smoothed down with a sharp knife. A very good wax is made from one best in the early spring just before The stock is not split but, the scion growth starts, but it can sometimes be pound of tallow, two pounds of beeswax is pushed down between the bark and (which need not be refined wax sold at done with good results during the growthe wood. The scion is cut to a shoulder ing season. If the work is well done drug stores), and four pounds of resin. on either side with a very thin bladethe trees may not suffer a noticeable These materials should be melted tolike center to avoid breaking the bark gether and while hot poured into a check in growth. of the stock. Several scions may be bucket or tub of cold water. After the The edge of the bark about the set in one stub but the number of mass has hardened sufficiently to hanwound should be trimmed back to clean, branches developed should usually be dle with the hands, lift out and pull live tissues. Twigs of last year's growth should be used for the bridge cut down to two after the old stub like taffy, until it becomes tough and is healed over. It is a good plan to turns a light color, then wrap in greased than the width of the girdle and sharpwrap the stub with a strip of waxed ened at each end in thin wedge shape. paper and lay away for use. Chunks of cloth as soon as the grafting is done. The butt end of the scion is inserted this preparation can be melted as need-Budding. under the bark below the girdle and ed and applied with a brush. Young trees two or three years old the tip end is inserted under the bark can frequently be top-worked by bud- at the upper edge of the girdle. The A wax which may be applied with the hands in warm weather without melting at the upper edge of the girdle. ding in the largest limbs in midsumis made from one pound of tallow, one trunk is entirely surrounded by these The buds can seldom be set sucscions set as described and as close pound of beeswax, and four pounds of mer. cessfully on wood more than two years together as they can be well placed. resin, prepared the same as for the formold. The buds are cut from well ma-The lines of union are then waked over er wax. Another good wax that may tured twigs not more than one-fourth and bound firmly with strips of cloth. be applied with a brush while warm is inch in diameter and twigs measuring In two or three years growth, these made by melting together three pounds three-sixteenths of an inch are better. twigs unite and make a solid and com. of resin, one pound of beeswax and one If the leaves are still on the twigs the plete bark. pint of raw linseed oil.

# Some Ideas On Tree Pruning Given

More Than 75 Per Cent of Bearing Apple Trees in Northwest Have Too Dense Crops-Sunlight Is Needed.

A few hints on pruning are never amiss. Here are some ideas @ that may prove interesting to the @ fruitgrowers of the Northwest.

K EEP your trees which have been erwise diseased twigs.

pruning to form spreading heads, giving plenty of space for sunlight and the circulation of air through the branches. More than 75 per cent of the bearing apple and pear trees in the Coast section of the Pacific Northwest age quality. An experienced apple grower's plan is to have three main branches start as low down as possible instead of a main trunk.

These should start from two forks AW kerf grafting is a method used very successfully by many or-chardists. The stub is cut as for half to two feet from the main trunk. fruit-bearing wood in tie.

# Don't Spare Tree.

In shaping a young tree two or four years old, the grower need not hesitate to remove one-third to half of the top, for this apparent loss will be quickly made up and along the correct lines. The pruning referred to is to be done with the shears, no undesirable limbs being allowed to grow large enough to

require sawing. The shaping of young trees can be greatly simplified by summer pruning. In this way the growth can be con-tinually directed along the correct lines.

This form of grafting is often carried to an extreme and becomes more spectacular than practical. Young trees are planted about the base of fruiting trees are planted about the base of fruiting trees that have had their roots killed or severely injured. The tops of the young trees are cut away and the tops of the trunks are grafted into the trunk of the larger tree. If the work is carefully done the wood will unite and the top of the old tree serves as a top for the young ones and the roots of the young tree serves as the roots for the old tree. Trees of special value may be saved for a few years by this process, but it is not practical for orchard

### Waxes.

A good grafting wax is very im-portant and should be prepared at some leisure time before the grafting is to be done. The use of a wax is to ex-clude air and moisture and to keep in-

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* All the shoots should be nipped back three or four times during the summer. This will cause them to grow sturdy and strong enough to resist the wind. Undesirable shoots can be prevented from growing by summer pruning, and also much benefit will be derived from frequent removal of mildewed and oth-

### Use of Saw Saved.

By following out such a system of summer and winter pruning, the young trees may be developed to full bearing condition without the use of the saw, thereby avoiding the woodrot trouble and insuring profitable production for 50 to 75 years.

The points to be remembered are the removal of undesirable branches before they have become too large to cut with the shears, and the pruning out of all

## Pruning Methods.

Pruning demonstrations were recently given at Sutherlin, Oregon, under the and even from the trunk. Indeed, it is auspices of the Fruit Growers' Associaadvisable to encourage such growth to tions, by Professor W. S. Brown, Exprevent sunburn and promote more rapid tension Horticulturist of the Agriculdevelopment of the trunk, also these tural college. About 50 orchard men twigs, if properly handled, will become and farmers attended these outdoor school lessons and engaged in the practice of pruning under the instructions of the expert in charge. These men are among the state's most successful orchardists, giving much care to the growing of fruit. In some instances overpruning and over-cultivation have been given their orchards, leading to a delay-ed bearing period. A demonstration in summer pruning has been arranged for at their request.

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