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CULTURE OF FRUIT. GRAFTING.

From the Albany Cultivator.

One of the most important operations in the culture of fruit trees, is the propagation of varieties by budding and grafting. By means of these we exchange the unpalatable fruit of the wilding for the most delicious productions which art and nature combined have been able to furnish. And there are few gardens or orchards which might not be greatly improved by the introduction of the best varieties, the cultivation and care of which cost no more than that of the most worthless.

Budding and grafting have their respective advantages and disadvantages. Budding, re-Budding, requires less skill and care, but needs the subsequent attention of removing the ligatures, and heading down the stocks. Grafting does not need this subsequent care, but more skill is requisite in the operation. The peach and nectarine can rarely if ever be propagated by grafting; and budding cannot be performed on be successfully grafted.

Books on gardening describe many different modes of grafting; but the multiplicity of these that the stock be thrifty, and the shoot in which often more bewilder the learner than instruct him. By understanding the essential requisites the operation is at once simplified, and it may be varied at pleasure without danger of failure. The two chief points are, that the sap flowing upward through the stock pass freely into the graft, and that it returns without interruption from the inner bark of the stock. To secure these both the wood and bark in the stock and graft, must be so cut as to admit of being placed in close contact, and when so placed, the line of separation between the bark and wood should, on one side at least, exactly coincide m both.

The most common and useful modes are the why and cleft grafting. Whip grafting is adopted where the stock and graft are of nearly To perform it, the stock and graft equal size. are cut off obliquely with an equal degree of slope, so as to leave two smooth straight surfaces which may be brought into close contact. A transverse cleft with the knife is to be made near the middle of each of these surfaces about me-third of an inch deep, so that when they ire pressed together, the tongue and slit thus nade in each, may mutually and firmly inter-lock. It is then usual to bind them to their place with bass or corn husk ; but it is better to have the jaws of the cleft in each so firmly pressed together as to render this unnecessary. The whole is then to be closely wrapped in a grafting plaster.

Where the stock is more than half an inch in diameter, cleft grafting is preferable. The stock is first cut off horizontally, and a split made in it at the middle of the cut surface an net or two in depth; in this the graft, cut wedge-like, is inserted. To do it properly, it is requisite that the graft be so cut, as to fit the split as nearly as possible, which is to be open-ed by a wedge on the side opposite from the place for the graft, and that the jaws of the stock be strong enough to press the sides firmly and closely. After thus, the plaster is applied.

It is convenient, in grafting, to have two is to be cut off a quarter of an inch above the those made by old knives, one chiefly for cutting, and the other bud, and in a direction sloping towards.it, and expense they could rery sharp, for smoothing the surfaces for all the branches and other buds carefully recontact.

All the branches and buds on the stock, must he carefully removed, that the sap may all go to the nourishment of the graft. Failure is olten caused by a want of this care. In heading down old trees, it is a common

wounds, is now nearly superseded by the far ceding winter, and selecting accordingly. These Grafting Wax These are made the most formed buds on the thrittest shoots. readily and cheaply by spreading the warmed Shoots cut for budding should always have wax over a sheet of unsized paper with a knife, the leaves removed as soon as they are taken or with a bush when melted, and afterwards from the tree, about a quarter of an inch above Cutting up into plasters of the requisite size, the bud. They may then, if needed, be pre-The best and cheapest wax is made by melting served several days in damp moss or cloth. The best and cheapest wax is made by melting together one part of beeswax, two parts of tallow and four of rosin.

As grafting early in spring is generally preferable, (more especially for the cherry,) it becomes necessary in cool weather to soften the wax by amficial heat. A kettle of coals, or a lamp, may be used for this purpose.

BUDDING.

Budding is always to be performed when the bark peels freely, which takes place when the stocks are in a rapidly growing state earlier than usual, after procuring an early kind, Chernes and plums should always be budded let the first seeds that ripen, on a well grown often continue growing rapidly a month later, large and unthrity stocks, which may often and peaches may be done even as late as the be obtained that will excel in earliness commencement of autumn.

> It is indispensable to successful budding, the bug is inserted not more than a year or two stocks. For the cambrum or mucilagmous difference i substance between the bark and wood, which mere trifle. hardens into the new wood, and which coments ranches.

Every bud is an embryo plant, and the object is to transfer this from one tree to another. To effect this, it is only necessary that the bud be cut smoothly from the shoot with a very small portion of wood with it, and inserted under the raised bark of the stock in close contact with the cambium. Provided the stock is thrifty and growing; the bud smoothly cut off, and closely and evenly applied to the stock; the cambium uninured by removing the barks; and the bud be kept to its place a few days by a ligature of moderate pressure; it is of little consequence how the operation is performed, and there can be little danger of failure.

The common way of cutting the bark to longitudinal slit, just through it, like the letter The bud is then slid downwards under the bark, in the middle of the slit. The whole may follow them out, and in a short time operation should be performed with as little. delay as possible.

Whatever mode is adopted, the bark should always be lifted by placing the knife at the edge, and not by running it under, as this al-ways injures the cambium.

After the bud is inserted, the whole should be covered, except the bud itself, with a ligature of moistened bass, corn-husk, tow, or other soft substance, bound round it with just

In about two weeks, or as soon as the liga-

it be not broken down by the wind.

The practice of using clay to cover the the shoots the buds have withstood the pre-

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SELECTING SEEDS.

Great improvement may be made by a judi-cious selection of seeds. In most all crops, some plants will be found more early, or in some respects superior to others. I seeds should be carefully selected. From such,

It a cultivator desires to have any production earlier than usual, after procuring an early kind, by the middle of summer; apples and pears and productive plant, be secured, and so proceed year after year, and in this way a variety will

Every variety of vegetable may be rendered more productive, by selecting, every year, the seeds of the most productive and well formed plants And this method of improvement will old. No skill can succeed in old or stunted be found the cheapest that can be pursued, as the difference in the cost of good and poor seed is a

Select peas for seed that grow in long, full pods, on vines that bear abundantly, and if you the hud to the stock, exists only in sufficient pode, on vines that bear abundantly, and if you quantities for this purpose in fast growing would have them earlier, take those which ripen Choose beans in the same way. Select first. seed corn from stocks that hear two or more good cais, and take the largest and best formed cars. Choose from stocks that are large at the bottom, and run off to a small top, not very high.

If you would have early onions and few scullions, select for seed a few that ripen first, and have a good form. Select the handsomest turnips for seed, having just the form you would choose, if you would have fine crops for the market; and by this selection for years, you will get a variety that may be relied on.

Follow the same rule in every thing. Like produces like, is a general law of nature; the same in the vegetable and animal kingdom: there are some exceptions, but not enough to remove it, is to make a transverse cut and affect materially the general crop of production, and by these exceptions we may profit; for when the exceptions are an improvement, we establish a new race or variety; but when the exceptions are inferior, we can reject them.

These objections to general rules offer great advantages, and a wide field for improvement, while the disadvantage is a mere trifle. As a spark will kindle a great fire, so from a single seed of superior excellence, large crops of this superior production may be raised, and widely disseminated for the benefit of thousands.

There is no subject of improvement so much other soft substance, bound round it with just neglected as this, it is within the means of sufficient force to press the bud closely on the all, and yet few give attention to it. Too stock. and while they spend much in manure and ture ' gins to cut into the stock, it must be re- cultivation, they neglect a much cheaper way moved. Early the following spring, the stock of improvement, or to avail themselves of is to be cut off a quarter of an inch above the those made by others in this way, when at less expense they could accomplish it, and perhaps

moved that the whole nourishment may go to We selected seed from the first pumpkin that its growth. Sometimes (as in the apricot,) it is ripened, in a variety which we cultivated for best to leave two or three inches of the stock several years, and last year some were ripe in above the bud, to tie the young shoot to, that two months and five days from the time of In heading down old trees, it is a common practice to graft into the large branches; it would be much better to cut off those branches; it would be much better to cut off those branches, it is a to much lost of the buds, though the buds, though the above remarks, but it is so clear to every often arises in budding of the above remarks, but it is so clear to every often arises in budding to the above remarks, but it is so clear to every often arises in budding to the above remarks, but it is so clear to every often arises in budding to the above remarks, but it is so clear to every often arises in budding to the above remarks, but it is necessary; but it is important that they be reminded spring up in their places.