Morliculture.

sharpened. With either of these implements holes of any desired size may be made with case.

Now to the way of securing the tree: Take any good tying material, as tye straw, elm or other tough bark,

strips of leather, etc., as they present themselves from time to time. Take the band, of whatever material, in middle on one of the stakes and at a proper distance from the ground make a loop round the stake by cross ing it and the tree; then another loop around the tree crossing between it and the other stake, around which make anotherloop as before and secure If the band is of straw, it may be made fast



by the common twist and tuck used in binding sheaves of grain. If of bark, tie a knot; if of leather, secure with a nail or two driven through it and into the stake.

Set the stakes firmly that they may cand straining, which should be done by drawing the band tightly and securing firmly, thus giving support to the tree in all directions. Two stakes are better than one for several reasons

trees should attain a certain age, say a good growth of at least five or six years after setting out. If much younger, the growth of the clover will produce too great a check of the trees while it is growing. While the trees are small, sake the ground must be kept clean and mellow by cultivation, or hoed crops only planted; with the addition of manure, as the natural condition of the soil may require. Then, if the land is sufficiently dry, either naturally, or by draining, (as all orchards should be,) plough it and make it mellow and smooth late in autumn; or omit the ploughing if the mulch middle of June, and remove it middle of September Artificial waterings are often absolutely it can be made clean and smooth without it. Farly in spring, sow clover and nothing else. Do not think of sow would soon ruin the trade of any nursery reprehensible, and will soon ruin the trade of any nursery. We have witnessed many heavy failures by that practice have have witnessed many heavy failures by that practice have have witnessed many heavy failures by that practice have have witnessed many h or hoed crops only planted; with the addition of manure, spring, sow clover and nothing else. Do not think of sowing any grain crop with the clover unless you want to stunt and spoil your trees.

admit, and more certain than to sow earlier on the surface

had a bushel per acre of plaster or gypsum. It is better to cut at early blossom than to let it go to seed and ex-haust the soil. You may leave the cut crop to lie and rot on the ground; but if you draw it off for fodder, be sure to

THE ORCHARD.

More about Staking Trees.

Edition Canada Partir — I see in part numbers, many good ideas, such as these on staking newly planted trees, or others needing support. Much depends on doing such things in the best manner, and so to this end it becomes the dity of any one having ideas which appear good to them, selves to communicate them to others, especially when such ready means are at hand as are afforded by the columns of the Canada Farmer. So I give mine on staking trees, etc.

When a tree needs support, it too stakes, on opposite sudes, of sufficient strength and height as the case may require, the stakes may be at before planting the tree, but little or no injury will be done by setting them after, by taking a good smooth hands pake and sharp may one and incolour sufficient strength and height as the case may restrictly a good smooth hands pake and sharp may no striking repeatedly into the ground, swinging the spike around until a hole of sufficient size, with one end sharpened. With either of these implements holes of any feeling size may be made with eace. of course, not be necessary, -Country Gentleman.

The Philosophy of Transplanting

Plants have lives and are susceptible of injury by wounds and bruises. In the course of transplanting they undergo the amputation of the outer ends of the main roots, where the feeding fibres are most numerous. That, with the disturbance of all the roots and their exposure for a given time to light and air, checks their thrifts, which they do not regain until they make now fibres after being reset. In digging up save the roots as much as practicable, and expose their roots to light and air as short a time as possible. Dig the soil some days before planting; break the soil fine; and if it is stiff, mix a portion of sharp sand with it to make it friable (sand at five dollars per ton will be profitable to so use in transplanting, trees and shrubs especially); the more friable the soil put about the roots in planting. fibres will be put out the more readily; so the plants will sooner recover from their injuries Hard-wooded trees take a longer time to put out new fibres after removal than soft-wooded species do; so they should be transplanted while young. An oak and tions. Two stakes are better than one for several reasons and especially in orchards where hogs are allowed to run. They will prevent the hogs from rubbing against the trees, which is very essential.

Small shrubs and flower stalks may be supported in the same manner

WM. Ferris.

Pleasant Plain, Warren Co., O.

Warren Co., O.

From the observations we have made, and from our own experience in enriching orchards with clover, we would recommend the following course: In the first place, the trees are slow in making new fibres after being transplanted in the same ratio. For transplanting trees, cherry, pear, plum and all nut-bearing fruiting trees, cherry, pear, plum and all nut-bearing trees are slow in making new fibres after being transplanted: so they should all be transplanted when four or six feet high, and also all other stome fruit trees. Apple trees have soft roots when young and make new fibres readily; they may be six to eight feet tall when transplanted. Oaks, beeches, brehes, hawthorn and other hard-wooded trees may be transplanted when four to six feet high. Poplar, willow, linden, soft maple and other worded trees may be transplanted when four to six feet high. Pine, juniper, crytomeria, &c., are among the slowest of evergreens in making new fibres than a poplar and willow, twelve feet tall. Among fruiting trees, cherry, pear, plum and all nut-bearing truiting trees are slow in making new fibres after being truiting trees, cherry, pear, plum and all nut-bearin hard maple, four feet high, will be slower in making new from three to six teet high. So all soft and hard-wooded trees and shrubs in the same ratio. For transplanting trees from nurseries they should be tied into bales, with wet straw about their roots, and bass mats or sacking sewed over the whole. Send by express for quickness sake. The practice of transporting trees and thrubs in wooden boxes without other coverings to their roots is reprehensible, and will soon ruin the trade of any nursery. We have witnessed many heavy failures by the practice hoe them in when cutting up weeds about the roots of the

Dogwood, deciduous cypress, larch, salisburia, hickory and tulip trees should be transplanted when thirty to be better to roll or brush it in as early as the soil will fifty inches high; they are all very slow in making new admit, and more certain than to sow earlier on the surface libres after removal. The tree boxwood is hard-wooded, admit, and more certain than to sow earlier on the surface three actions and trust to a "catch." This has been our experience at any rate. By mid-summer or a little later, there will be a dense growth of clover; larger, if the young plants have plant it when twelve to eighteen inches high. Austrian

pine is the slowest evergreen tree that I can think of in inaking new fibres; always plant it when young and small. Biola aura and mostly all the golden gilded evergreen shrubs, should be planted when twenty to thirty nehes high. Such care will ensure success. Success and 'ailure attend both spring and autumn transplanting. I we transplanted Norway spruce trees when thirty feet high in the opening of spring, and hemlock spruce trees twenty-three feet high at the same time; and all grew well and still flourish after ten years so removed. I have also transplanted soft maple trees fifty feet high; sugar-maples and red maples, lindens, sycamore trees, de, when thirty feet tell and well branched. They all grew well The roots were followed out long distances, and all soil removed from them with picks and digging forks. Let me have all the roots and I do not want soil with them. The transplanting of those large trees were upon the same grounds; say, a hundred yards removed and stabed to support. The freen ball system is a humbug, but as many other humbugs are successful, so is this at transplanting heavy costs.—Cor. Germantown Telegraph. pine is the slowest evergreen tree that I can think of in

Plums on Peach Roots.

Josiah Hoopes writes to the New York Tribune :- 1 claim that my plum trees, grafted on peach roots, are just as healthy as any of my neighbors; that the principle is correct; and if the facts do not coincide with the popular theories of the day, then it is bad for the theories. If any one can tell me why plums on peach roots will not do equally as well as those budded on plum roots in a country where the peach thrives with unexcelled vigor, then I shall have to assume another position. The opponents of this system claim that the "borers" soon destroy the peach root. I admit that, but the man who is too lazy to devote a few minutes once a year to killing them don't deserve to have plums nor peaches either. Practice after all is the sure test to prove such disputed points as the above, and practice in this case says that in peach countries the peach root will thrive as well—yes, I will even say better—than the plum, but in heavy clay soils the latter is the better stock of the two in all probability; yet I suppose there are plenty of "Valking Encyclopedias" similar to a neighbor of mine, who are ready to argue that it is cheating because it is. one can tell me why plums on peach roots will not do cause it is.

WASH FOR FRUIT TREES .- The Practical Farmer, speaking of a wash for bodies of fruit trees, recommends that following: One ounce of copperas to eight or ten gallons of water, forms a good wash, and is advised for trial expreventive against blight. One pound of bleacher's some and one gallon of water forms a wash that cleans off all m sects, and leaves the trees with fresh, young-looking, healthy bark.

WATERING TREES.-As a general rule, watering youn, trees in summer does more harm than good, by crusting the surface, without reaching the roots; and even if the roots are reached, the relief is only temporary, unless the watering is regularly repeated. There is a great want of appreciation of the amount of water required for trees by those who apply this remedy. A young tree four or five feet high, if growing well, soon throws out roots several feet on each side. If these roots are only three feet long, the circle of roots will be six feet in diameter, and at a depth of only one foot there would be no less than twenty seven cubic feet of earth to saturate with water, requiring for one-fourth the bulk nearly one hogshead for a single for one-fourth the bulk hearty one noganization a single watering. It is true that a young tree just set out may have had its roots cut much shorter, but as new ones are to be quickly thrown out into the soil as it commences growth, a narrow watering will do but little good. Clean, mellow a narrow watering will do but little good. Clean, mellow culture is better than all the watering that can be given or wide and heavy mulching if cultivation is impracti-cable.—Country Gentleman.

THE WILD GOOSE PLUM. - I have referred more than once to the probable value of this new candidate ter popularity, and have advised readers to give it a fair trial; but as so many of the novelties lose their early reputation after a few years' test. I have thought best to be cautions in recommending this plum too highly until better known. An article from the pen of D B. Wier gives additional weight to the testimony in its favor. Mr. W., who is well known to the horticultural world as a careful experimenter, states: "I am willing to stake my reputation as a man of truth and a horticulturist that the genuine Wild Goose Plum will prove to be all I have claimed for it, and that all with whom it has failed have been imposed upon by a spurious variety. This is pretty strong ovidence, and seems to settle the controversy in respect to its value. Should this variety retain its standard of excellence in every section of the country, in addition to being 'bug proof' and entirely hardy, it strikes me there is a pleasant prospect ahead for all lovers of plums." Unfortunately, however, as Mr. W. observes, there is such a host of worthless, spurious sorts now being disseminated, that one really does not know what he is getting, even should the Wild Goose be ordered.—An Old Orchardist in New York Tribune. after a few years' test. I have thought best to be cauti. York Tribune.