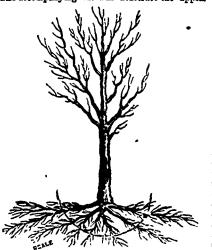
breaking up the subsoil, and manuring it as freely as it will bear. In the autumn he will sow it with grain and in the spring seed it down with clover, the large red clover. After harvest he will encourage the growth of the clover, and the next summer will cut a good mowing for his cattle. After having mowed it, he will allow it to grow undisturbed until about the first of September; then he will turn it under in season to have the sod well rotted before winter sets in. When spring opens, he will pulverize the soil, making it fine and mellow, plant out his trees, and cultivate the space between the trees with potatoes, beans, or some othe hoed crop. This sort preparation is the best. The thorough summer-following and sub-soil ploughing have put the ground in good condition for the red clover, the clover roots have penetrated the earth yet deeper then the subsoil plough, and by their decay prepared the way for the roots of the fruit trees, while the mellow surface soil, in good tilth, is in just the right condition to receive the roots of the young trees and supply them with the food they require.

Selection of Trees. The waste which marks the present age has seized also upon the planters of trees. They want them large, the larger the better; if they will bear fruit the same season that they are planted out, then they are just right. A tree is valued according to its size, and purchasers stipulate that they shall be so many feet long for a certain price. Nurserymen have conformed to the popular demand, and quote their trees accordingly This demand for tall trees has compelled nurserymen to grow their young stock, so as to obtain the greatest height in the shortest time. In England, trees are valued according to the number of times they have been transplanted; that is, according to the supply of time fibrous roots, for each transplanting increases the number of such roots. There they know that the subsequent growth and value of the trees, when removed to the orchard, depends upon the quantity of roots within the circumference, say, of a half-bushel measure. Henco the planter seeks to procure trees having, when dug up, a large supply of roots in proportion to the top, well knowing that having a large supply of roots, he can soon grow the top, but that if the supply of roots be small, he must wait until the tree can form roots before it can make branches.

Nurserymen in America transplant their young trees as seldom as possible, knowing that they will get no more for a tree that has been twice transplanted than for one that has never been transplanted at all, and that each transplanting increases very materially the cost of the tree to them. A large tree that has not been frequently transplanted will make long and strong roots, having their fibres at

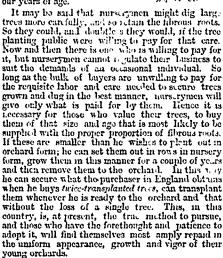
The accompanying cut will illustrate the appear-



ance of the roots of such a large tree. The fibres, trees were in good conditions mall, thread like roots, are at the extremities of the localities are certainly injured.

main roots. The larger the tree is the stronger will the main roots be, and the farther from the trunk of the tree will be the little fibres. These fibres are the roots that take up moisture and food from the soil for the nourshment and growth of the tree. It will at once be seen that in taking up a large tree, by putting in the spade at the dotted line in the illustration, all the fibrous roots will be left in the soil, and only the main roots, having their fibrous extremities cut off, will remain attached to the tree. The tree being thus deprived of those roots from which it mainly receives its supplies from the soil, must necessarily cease to make branches un alsuch roots are again formed. This loss the tree will, on being again , planted, at once endeavor to repair, and if meanwhile it do not perish, it will in time, longer or shorter, according to circumstances, throw out new fibres and establish anew its connection with the soil

But if the tree be small the fibrous roots will not be so far removed from the trunk of the tree, nor will the main roots be so large, but the roots will have the appearance indicate lin figure 2. If such a tree by day upby inserting the spade at the place indicated by the line, nearly all the roots will be retained, and a large proportion of them will be the small feeding roots, so important to the growth and health of the tree. Hence it is to the in-terest of the purchaser to obtain young, healthy tree; I from two to not exceeding our years of age.



# Best Evergreens for Windbreaks.

The best evergreens with which to form windbreaks or screens in Canada are the Norway spruce, white spruce, Austrian pine, and white pine. These are all perfectly hardy and may be easily obtained. The Norway can be supplied in large quantities by all our nurserymen at about one cent for every meh in height. The white spruce and white pine are native trees, and may so obtained from our nurserymen or, if preferred, from the forest.

The Peach Crop Prospect.
A correspondent of the Western Rural, says: Having just returned from a trip to southern Illiwhere I examined many peach orchards, I would report that so far as I could see and learn. from others, there are no live peach buds as far south injured; of course, of the old trees most. Many of the most experienced orchardists are heading their peach trees back to within a few feet of the trunk. from my own experience in 1864 I think this a wise measure, especially with old trees. Very soon a fine new head will be obtained, and good fruit is the

So far as I could see, the apple and other hardy trees were in good condition. Grapes in some

### Miscellaneous.

GRAVENSTEIN APPLE. This variety, commonly used as an autumn apple, is stated by F. R. Elhot, of Cleveland, to keep till February and March in his cellar.

New Prans - An Indiana correspondent of the Horticulturist says that Souvenir du Congres and Assumption are as good as the Bartlett, a few days earlier, and larger in size. Worthy of trial.

The Special Pean, according to a correspondent of the Gordner's Monthly, at Suspension Bridge, N. Y., is "wonderfully improved" by applying ashes, lime and bones, in autumn, and pruning and thinning out the thick branches early in spring

TRIONING DE JODOIGNE PPAR.—P. Parry informs the Hural Home that this pear, which he thinks has been too much neglected of late, will keep in good condition till the end of December, and that on the lith of last December, he received from J. M. Davis, and Fishkill N. V. Town die Fishkill N. V. of Fishkill, N. Y., very fine specuaens, with high commendation of their value.

# THE GREENHOUSE.

## The Stephanotis.

There is no more beautiful greenhouse climber than the stephanotis floribunds. This plant is a comparatively recent introduction into this country, as it is not fifty years since it was first found in Madagascar of which island it is a native. It is usually grown in the stove-house, being particularly fond of a moist heat. The stephanotis belongs to the milkweed family, of which we have quite a number of representatives. Some species of milkweed or asclepias are very handsome, and all are interesting from the curious structure of their flowers. As usually grown in our moist stoves it is trained upon the rafters, but owing to the scanty foliage it seldom makes much show except when in flower. The best way is to train it upon a balloon-frame trellis. To those who do not know the meaning of this term we will say that this trellis is made of wire or pliable sticks of willow, of any desired length, from five to ten in number, according to the size of the plant. These sticks are thruld firmly into the soil at the rim of the pot, and the upp r ends tied close together, making a trellis in form concewhet resembling a balloon. A circle of wire in the middle of the trellis will keep circle of wire in the middle of the trellis will keep the sticks more firmly in place, and tend to preserve a regular shape. When trained in this wry the plant cen be easily removed to the dwelling-house when in flower The flowers of the stephanolis are white and very fragrant, and have a waxy look, some-thing like those of the hoya carness. Large quantities of them are sold in London markets for wedding bouquets. This plant is usually grown only in the greenhouse, but it would undoubtedly do we'll as a house-plant, if sufficient moisture and heat were supplied. The coil in which it thrives best is a rich loam, with at least one-third peat or leaf-mould and sand. Cuttings root readily in a warm greenhouse. The name stephanotis means "cared crown," and was given for the reason that the staminal crown has auricles or car-like appendages .- V. in The Farmer.

COLD WATER AND FROSTED PLANTS .- The value of cold water on tender plants that have been nipped with frost is not so well known as it ought to be, especially amongst our amateur friends. A few lays especially amongst our amateur triends. A tew lays since I had some nice plants of Chinese Primulas standing on a shelf close to the glass in a cold house. One night the frost got in, and the next morning the leaves were stiff and looked quite black. I at once removed them from the shelf, set them on the floor, commenced to sprinkle them with cold water, and continued the operation every few minutes for nearly commenced to springly them will cold water, and continued the operation every few minutes for nearly half an hour, until the frost was criticly removed, now they are looking as fresh and healthy as those that were not touched with frost.—The Gardener's Magazine.

CABRAGE FROM BUDS.—The Pacific Rural Press says: "Take a large head of cabbage, strip off the outer leaves, and slip off the buds found at the base of the leaves. Take these buds and simply set them in rich earth. The result will be a fine growth of cabbage plants, with heads larger and sounder than can be raised in the ordinary way."

THE EUNELAN GRAPE.—Peter M. Gideon, a well the Etwillan Grape.—Free al. Gincon, a well known cultivator of fruit in Minnesota, states that the Eunelan grape has done well with him for two years, and he finds it the earliest black grape, best for table, first in market, very saleable, great bearer, and with a hardy vine, bearing better than the Concord, and never dropping its berries.