## AGRICULTURAL.

[From the Southern Agriculturist.] ON THE DISEASES OF TREES, AND METHODS OF CURE.

When it is observed of a tree, that it does not shoot forth, we are certain that it is either punctured to the liber or white bark, or that it is deficient in nourishment from the poverty of the earth, in which it is planted, that will in time prove its destruction. The remedy is to lay bare the roots in the month of November, for three feet around the tree, and put in three or four baskets of well rotted cow manure; throw upon this three or four buckets of water to force the manure amongst the roots, after which fill up the hole with the same earth that was taken out of it; the roots becoming refreshed, throw out new fibres, and the year after the tree will be seen shooting forth its green foliage again. If the summer is very dry you must throw two buckets of water around it from time to time. The winter following, in trimming the trees you must not leave as many branches as on those that have always been in good health .- Trees of every description are cared in this manner.

Bad soil .- Fruit trees accommodate themselves more to warm light earth than to that which is cold and wet.

Diseased roots .- Frequently a tree, all of a sudden, after having thriven many years, will become weak and languid: this arises from the roots becoming rotten from having been planted too deep, from the many fibres, from bumidity or otherwise. This is easily remedied by laying bare the roots in autumn, and cutting off such as are decayed, up to the sound wood.

Exhausted earth.-If the tree languishes in its sound roots, the malady arises from the earth being too much exhausted. To reammate it, remove the exhausted earth and replace it with new; afterwards throw around the foot of the tree two good baskets of cow manure, if the earth is warm-or that of the horse, if it is cold; and when the time arrives to trim it, cut out the old wood. If it does not shoot forth well the succeeding year, it ought then to be dug up and thrown away.

To regenerate old trees .- When you have in your garden a very old tree, whose branches on the right and left indicate dying, you may calculate the cause to be in the roots: it wants nourishment, and the earth about its feet is too old, exhausted and dry. To give it again health and vigour, lay bare the roots in the month of November, for four feet square all round them so as not to injure them; afterwards throw five or six baskets of well rotted cow manure above the roots, the fall and win-ter rains will decompose it; if the winter is dry, you must water it, in order that the liquor of the manure may become a kind of pass to nourish the roots; the sap will begin to flow, and the earth and tree revive. In the month of February, cut the old branches to the body of the tree, covering the wound so as to prevent either min or the san from doing any mjury. After the first year, the branches will be three feet; and if it is a tree which ought to be trained, the winter after true the brauches a foot long. This manner of resuscittating all kinds of trees is excellent

Trees diseased on one side only.—If a tree is diseased on one side and vigorous on the other, lay the roots entirely bare, remove the diseased part, and cut the larger part in order to make the tree equal, and the circulation of the sap more general; put new earth above the roots, even if they should not be unhealthy, and two or three baskets of manure as above.

side long, and you must leave all the fruit bran- small nut of the peach, dries it up, and makes ches, even the weakest, so as to draw the sap z it fall; to remedy this, you must bare the roots her operations, by removing all obstructions

Yellow leaves .- This disease arises often from the same cause as that of the disease last spoken of, that is, exhausted earth. In such case administer new earth mixed with manure reduced nearly to that of common earth; or, without entirely uncovering the roots, with ashes and soot, these materials are very good for light earths. When the ground is cold, pigeon dung is very good, particularly where it has been in a heap for two years, to ameliorate its strong heat; spread it an inch deep about the foot of the tree, and in the month of March following bury it. For the want of this dung, you must take away the old earth from around the tree and replace it with new, mixed with fine well rotted horse manure. If the yellowness arise, from the earth being damp, take horse-dung mixed with water, so as to form a kind of pap, make a treach around the foot of the tree, pour in the mixture, cover it, and let it thus remain: it will reanimate it. If the yellow leaves arise from a contrary cause, that is, from the sod being light and dry, you must as soon as the month of November arrives uncover the roots, and put above them the scrapings or settlings of a pool, well-drained, worn out, and exhausted street-mud; hog-dung or other similar manure; these simple and easy means will resuscitate them.

A tree often becomes yellow from having given too much fruit, and exhausting its substance. In this case you must pull off a part of the fruit, and apply fresh nourishment to the roots.

When a tree appears to languish, make a circle around the foot of it, in which you must put any convenient manure; in trimming it, ent off all superflous wood, and after having filled up the hole in which you have put the manure, leave nature to act, and she will resuscitate it soon. In digging around the tree, keep off at from two to four feet distance, observing as you approach the tree to dig carefully around the mound in which the roots are formed.

Sterility .- Open the earth about the foot of the tree, out off the extremities of the large roots, shorten those that are too long or far off. and all the small ones near the trunk; throw good new earth upon them and cover them

Means to produce fruit from trees which flourish well, but whose fruit becomes blighted almost every year .-- There are some trees which are charming to the sight when in blossom, but which retain none of their fruit: in this case, at least six buckets of water thrown around them when in full bloom, will answer a good purpose. If you have not so much water, you may refreshen the tree by sprinkling the buds. When the fall of the blossons is in too great an abundance, bleed the tree or prune the

Inertness of the san .-- In very cold and dry summers in which there is not much rain, it happens that the sap ceases to flow by degrees. You will then see a great portion of the fruit, particularly peaches, which have the most need of a large stock of sap to acquire maturity, fall or prove abortive. The only remedy in this case is to open around the foot of the tree. and to throw in a backet of water to open the pores and revive the sap, which will prove well that watering and vigilance are necessary in gardening.

When the spring is dry and cold, it often happens that a peach tree does not shed its When you trim this tree, leave the vigorous! blossoms, the flower attaching itself to the

trim very close the diseased side; out off all find threw in buckets of water, and when it is useless branches, and leave a few fruit bran-driedup, cover them again with earth, and continue watering them every week during the Months of March and April, until you find the fruit safe and well grown; this raises the sup and saves the truit; it is good to water freely peach and apricot trees during the great heat of summer, and above all, when the fruit is approaching to maturity. When the fruit is well grown the tree must be thinned of those that are superabundant, which not only makes the fruit grow larger but better, it also preserves the vigour of the tree, which would become rained in two or three years, if you do not proportion the fruit to the strength of the tree. Peaches, nectarines, and apricots, must be thinned in May. Only few fruit must be suffered to remain on the weak branches.

When the heat is great and a continual drought, at the end of July, and during the month of August, it is good to throw around the foot of the tree, and particularly the peach, a bucket or half bucket of water, so as te rouse the sap and prevent the fruit from falling half ripe. When you observe the tree and the fruit advance very slowly and fall in great numbers, you may be sure it is in the sap; you must then put water to the foot of the tree, for which purpose you must make a trench around it at a short distance, so that the water may be better held, cover the earth with leaves or straw, and throw water on it, so as to enable the earth to preserve its freshness.

To give fruit a fine color, about the end of June clip with a scissors those leaves that surround the fruit and when they have grown nearly to their size, remove all their leaves from around them, so that the dew, rain and sun may penetrate, paying attention to the soil, the weather, and the strength of the fruit, for delicate fruit becomes scorched if laid bare too soon, and if too late, without color and taste. Peaches and apricots should be laid bare only fifteen days previous to their being ripe, otherwise the fruit would become defective and imperfect about the stone. By jetting water with a syringe upon fruit exposed to the sun two or three times a day, you will give it a peculiar and curious color. but at the same time impair the quality.

When the severity of the heat occasions the fruit to fall, instead of watering, dig round the roots two inches deep, which fill up with the ashes of wood, and to prevent the wind from blowing it away, cover this ashes with earth.

Peach and apricot trees are liable to what is termed blight, which is an injury that shows uself by the leaves becoming crimped, shrivelted, dull and yellow, they fall about the first rain; you have nothing to do but first to remove all the blighted leaves, so that the new foliage of the succeeding spring by force of the sap of those which have been blighted, come quicker.

To remove gum you must with a proper instrument cut down to the inner part of the tree, and cover the wound with dry earth tied on with a cloth.

This is the general method of treating diseased trees in France, which from similarity of climate with that of this country, will apply here. Many persons believe it to be only necessary to plant a tree, and that nature will do all the rest. It is true, we must depend upon nature for the success of our endeavours; but we must recollect that the fruit trees we cultivate, are not indigenous to the clanate. and that our want of skill and judgment in planting and nourishing them, may embarass the operations of nature in bringing the fruit to perfection. It becomes necessary, therefore, to ensure success, that we should aid nature in