peared in England from the able pen of Geo. W. Johnson, Esq., one of the highest authorities in Europe on Horticulture. The following is a portion of the author's observations on grafting. We shall again refer to this very useful manual:—

for in such case the Green Gage would be altered by its Plum stock, and the Nonpareil by its Crab stem. So far from this beng the case, the old gardener's maxim-' The graft overruleth the stock quite,' in consonant with truth, though it is to be taken with some re servation. The graft prevails and retains its qualities, yet the stock has the power of influencing its product eness as well as the quality of the fruit. 'Thus, a tree having an expansive foliage and robust growth, indicative of large sap vessels and vigorous circulation, should never be grafted upon a stock oppositely charaterised, for the supply of sap will not be sufficient: illustrations are afforded by the Codlin never succeeding so well on a Crab, nor a Bigarreau on at wild Cherry, as they do on freer-growing stocks. Indeed, we have no doubt that every tree and shrub succeeds best, is most productive, and most free from disease, if it be supplied with sap from roots and through a stem of its own peculiar This is evident to common sense; nor would any scion be grafted upon a stock of another species or variety, if it were not that such stocks are most easily obtainable, or for producing some alteration in the habit of the plant, or to fit it for some particular soil.— For example, our choicest Cherries are grafted or budded upon the wild Cherry only because of its being easily obtained; and every one must have noticed the frequently occurring consequence, an enlargement, appearing like a wen, encircling the tree just above where the graft and the stock joined—the growth of the former having far outstripped that of the lat-But the stock has some other influence over the sap, besides limiting the quantity of sap supplied to the scion, an influence not only arising from the size of its vessels, but from its susceptibility to heat. It has a further influence over the scion by the sap becoming more rich, indicated by its acquiring a greater specific gravity in some stocks than in others, during its upward progress. The specific gravity of the sap of a Black Cluster Vine stock on which a Black Hamburgh had been grafted was, when obtained six inches from the ground, 1.003, and at five feet from the ground 1.006; but the same Black Hamburgh, growing upon its own roots, had specific gravities at corresponding heights of 1.004 and 1.009. This increase is of great importance to a tree's growth when the quantity of sap passing annually through its vessels is considered. The

exact amount of this it is perhaps impossible to discover, but its extent may be appreciable by the quantity of moisture their roots a known to imbibe, and by the facts that small Vine-branch has poured out 16 one sap in twenty-four hours; a Birch tree against they equal to its own weight during the basing season; and a moderate-sized Mapleaks 200 pints during the same period."

Culture of Melons.

It is a great object to get melons care This cool, richest and most luscious of herbaceous fruits, to be fully appreciate should be eaten in the hot weather of Je August and early September. They may started in the hot-bed, provided some men be contrived by which they may be lift and transplanted to open ground without turbing the roots. Some plant over a par of turf in the hot-bed, which may be came with the plants to the open ground; other in small open baskets, which may be set wi the plants in the hill, the roots being able push through the interstices in the basks and other; again in a shell made by excur ing a large turnip, which soon rots in a ground or may be removed after the plan are carried to the hill. In this climate, he ever, it is easy, with a little care, to raise n ons sufficiently early in the open ground

A light, rich, sandy soil should be selected. In the lack of such a soil, it will be well supply a bushel or two of sand to each the soil should be deeply dug, thorough pulverized and enriched. A little finely precized chicken or pigeon manure, min with the soil of each hill, will be found excellent stimulant. A frame, a few ind high, around each hill, may be covered glass or mosquito netting, and will be a grotection to the plants from cold will frost, or the striped bugs. Eight or tense should be planted in each hill, and after a are safe from insects, should be thinned.

to two or three.

The greatest difficulty in point of some in melon raising, is in obtaining and pressing the seed pure. The varieties of the on readily mix with each other, and if save your own seed, without great car, will soon have no good melons.

will soon have no good melons.

The fruit, the first year will not at the mixture; the second year it will be apparent, and the third year may be to less. To preserve the seed pure, it is not to plant nearer than ten rods of any to with which they can mix. When you planted a good variety where it is safe admixture, save seed enough to last years. Melon seed improves with age to five or six years.—Valley Farmer.