white, blue, purple and red. In some por- barrows to a tree at the annual fall dressing, the large producers. tions of North America the climate appears. It should be borne in mind that an overstimusingularly favourable for the production of lated growth in its infancy will indeed ennew and good varieties. Downing describes no less than forty, seven of which are of firstrate quality, and have been recently introduced into England. Darwin says that vavicties occasionally arise having an innate adaptation for certain soils, almost as strongly pronounced as with natural species growing on the most distant geological formations Thus, in America the Imperial Gage, differently from almost all other kinds, is peculiarly fitted for dry light soils. where many sorts drop their fruit, whereas on rich heavy soils its fruit is often insipid There is a species of sloe (Pro-us spinosa), a thorny shrub growing wild in Europe, bear ing a small black plum, austere in taste (differing from our Practs A. erleana) which is often used for giving colour and astringent flavour to wines. This was thought to be the parent of all our plum- But the parentage is now commonly accorded to Promis insilisia, or the Bullace, which is found wild in the Caucasus, and north-western India. It is becoming evident to fruit growers that many of our cultivated plum trees from various causes, are becoming constitutionally debilitited, and not reliable. Sooner or later we shall be compelled to fall back on our native varieties for further improvement. I would refer you to an article describing these by D. L. Adair, illustrated in the March number of the Journal of Horliculture for 1869. Believing it to be the only reliable plan for future improvement, and in the hope of opening a similar road in Ontario. I have already set in motion a plan which will secure the best seed from the best native varieties. I do not propose in this paper to offer a list of such as the Columbia. Plant them in the named varieties, knowing that many of them, imported and natives, can only be considered and graft to suit yourself, with such varieties suitable to certain localities, the desirable- as you esteem. Remove the earth to near ness of which must be arrived at by personal the collar, cut off the head of your seedling improperly applied, and by uncongenian ness of which must be arrived at by personal the collar, cut off the head of your seedling improperly applied, and by uncongenian ness of which must be arrived at by personal the collar, cut off the head of your seedling improperly applied, and by uncongenian ness of which must be arrived at by personal the collar, cut off the head of your seedling improperly applied, and by uncongenian J. J. Thomas's on American fruits, will fully second year after germination. You will in produced by changes of temperature. I name varieties.

to its culture is a strong clayey loam. In sery practice. There is no mutilation of with a healthy and sound appearance, and light soils it grows less strong, and is more root required for its removal, nor would it be would no doubt so have continued, but for subject to the attacks of insects, yet there are indiscriminately grafted on stock produced the mild weather in a part of January and varieties suited to every soil. The trees from mixed seed. I have a dozen varieties February, which came on after the trees had should be set one rod apart, when making grafted and budded into one tree, and it is a partial rest, stirred to vital motion the sap, an orchard. This will give one hundred and surprising to see the difficulty some of these and this condition was followed by cold, sixty trees to the acre. The ground must chave to live on an uncongenial stock. This, producing a contraction of the organizable always be kept free from weeds, and the as well as high manuring, is another cause top soil solightly cultivated as not to injure of constitutional debility. I am sorry to say the roots. An annual top dressing should that this condition has not commanded as be given of well-rotted manures, and in no timuch attention as the importance of the subway dug into about the roots. This bringing ject requires. It is one of the evils, however, of crude minures in immediate contact with lineidental to the business of producing large the roots is one of the causes of constitutional quantities of trees. The old seedling apple to push forth the appearance of new life. derangement and disease. As to the amount | orchards of the country, one hundred years of Rapid changes from freezing to thawing to be applied. I should say that lafter the tree lage, still stand in vigorous bearing as me lahould be prevented, if possible, by some had come fully into bearing, but not before, I mentoes of the past, and a living condemna. chicient means, such as covering with overthere can be no harm in a generous applica- tion of unhealthy unions. Let us who are green boughs, protection by hedges, trees, or

large i's organic form, but at the same time many varieties now under cultivation differ will weaken its power to resist changes of so much in flavour, form, colour and size, temperature and moisture. The character of that the range might appear sufficient to satgrowth differs so much in varieties that it isfy the most fastidious, were it not for the would not be safe to lay down any definite great novelty and known fact that new and rule in pruning and training. This is one of rare specimens can readily be produced by the lessons to be learned by observing the rare specimens can reason, the lessons to be learned by observing the rare specimens can reason, and a wise selection of seed, high cultivation, and growth of each variety, for what can be more hybridization, the limit to which still lies opposite than that of the Greengage and pyprimization, the mine to the opposite than that of the Greengage and veiled in the impenetrable future, and must Bradshaw? Yet there is one general rule to vened in the impenetration. of the head of each tree. On looking at the current year's growth, you will see alternate buds on the in and out sides of each limb. If the head require expansion, cut close to the outside one; if contraction, to the inside bad, at the spring pruning, just as they are bursting into leaf. The wound will then readily heal over. The head should be started low down, not more than three feet from the . ground. In this way the trunk will be se- dred and twenty degrees, after which they cured from the intense rays of the sun, and so prevent inducation of the bark. But should this from any cause occur. longitudinal cuts, without going so deep as to injure the wood, with a sharp knife, just through the bark. in several places, up and down the trunk and limbs, about the 1st of July, will be the means of forming a new and healthy bark. Another advantage in having the head of your trees low is the facility in gathering fruitand in destroying insects.

In securing trees from the nursery, you are not always sure of getting those which known hardy and thrifty growing kinds, exact place you wish them always to stand, tion of lime, ushes, salt or bone dust, mixed annateurs educate ourselves in this branch of hill sides. These sudden changes are the

lity and colour-bright yellow, green, almost, with well rotted stable manure, say two wheel- the business, and then we can help our friends,

binations are possible. The fruit, to be at its greatest perfection, should remain on the tree until the slightest pull detaches it from the the stem. It may then be eaten, canned, dried, or made into preserve. A highly profitable business could be carried on by taking the Pond's Seedling, Italian Prune. or Columbia, when fully ripe, removing their pits and dinning them into hot syrup, then drying in an oven heated to about one hunmay be compressed into glass jars, and are theu fit for shipment; thus got up they are extremely fine, made into puddings and used in confectionary. I annually prepare in this way sufficient for family use; they are indispensable from the many uses made of them. The fruit should be carefully picked on a dry day, without injury to the spurs, and carried to a cool fruit room, and there packed as peaches are for shipment in open crates. They bring usually from four to six dollars per bushel. I believe the time to be not far distant, when railway directors will find it to be form a healthy union. The way to secure to their advantage to have special cars for such is to plant you; own pits from some the carrying of fruits, under a more careful supervision than now prevails.

DISEASES.

I have already partly spoken of these, but in addition to over stimulation by manures ame varieties. this way establish a better union between would give you a simple illustration; last.

The soil considered to be the best fitted scion and stock than usually prevails in nur. fall my plum trees went into winter quarters matters thus set in motion, before opportunity was afforded for their chemical claboration. Hence the spring found the tree with that matter in an abnormal and dead weight state; some died entirery, others were late in the season before the new force was able