

essential to plant deeply." We, on the other hand, think there is quite as great need of caution not to plant too deeply, especially in heavy soil. What is the experience of other vineyardists in Canada?

Wanted.—January, February and May numbers of the *Canadian Horticulturist* for 1886. *Nine numbers* of the year 1885 will be given in exchange for these three; or three numbers of 1885 for any one of them. Each number for 1885 contains a colored plate.

A valuable paper has come to hand from Mr. P. E. Bucke, of Ottawa, on "Suitable Trees for the Lawn," which will appear in the January number.

Able Contributors.—Among other gentlemen, who will contribute to these pages during the year 1887, we have pleasure in mentioning the names of the following. viz. :—D. W. Beadle, W. E. Wellington, A. M. Smith, W. W. Hilborn, John Little, Hermann Simmers, P. E. Bucke, A. A. Wright and F. Mitchell. With such a staff of able contributors an era of unprecedented prosperity is before this journal, and of enlarged usefulness for the *Fruit Growers' Association of Ontario*.

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## Question Drawer.

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*This department is intended as an open one to every reader of the "Horticulturist" to send in either questions or answers. Often a reader will be able to answer a question which has been left unanswered, or only partially answered by us. For convenience of reference the questions will henceforth be numbered, and any one replying or referring to any question will please mention the number of it.*

9. The Influence of Stock on Graft.—*With us Grimes' Golden is below medium size. At our County Exhibition in October among the dozens of Grimes' Golden shown, was one dozen twice as*

*large as some of the others. I asked the exhibitor, "How do you grow them so large?" "By top grafting on the Holley," was the reply. The Holley is a Nova Scotia seedling, a very large apple. What do you think of this?*

C. E. BROWN, Yarmouth, N. S.

Neither the scientific study of the growth of the tree, nor the experience of our most reliable pomologists, favors the idea that the stock has any power to change the identity of the fruit grown upon the scion. It may have some influence upon habits of growth in certain ways. Thus grafting a standard pear upon the slow growing quince dwarfs its growth, and by hindering the free return of the sap causes it to be the more directed to the development of the fruit; so that in certain cases, as with the Duchess, the fruit is larger and finer thus dwarfed. A tender tree may also be made hardy by grafting it upon a hardy stock; thus the peach will sometimes succeed upon the plum stock where it would otherwise fail. But it is not at all probable that the Grimes Golden would grow larger upon the Holley stock, simply because the Holley stock bore a large-sized fruit. See, however, article by Dr. Hoskins, p. 233.

Mr. A. M. Smith says: "The influence of stock on scion is an old question, and one on which there is a difference of opinion. I think the quality of the fruit depends more on the vigor of the stock and the cultivation it receives and the soil than it does on any special variety on which it may be grafted." See Report N. S. A., p. 34.