

of this cross which have yet fruited which are as good as McIntosh in quality, ten of the sixteen are better than Lawver in quantity and thirteen of the sixteen are later in season than McIntosh, and most of the varieties are of high colour and attractive in appearance. Following are those which have been named: Lawver by McIntosh-Holz, Verme, McIntosh by Lawver-Mavis, Rustler.

BUD SPORTS.

A few varieties of apples, or perhaps some of them might be called sub-varieties, are originated by bud variation. For instance a bud on a Fameuse tree may develop into a branch which bears apples much redder than those on other parts of the tree. There are some of these Red Famense in Canada which, however, were noticed as individual trees in an orchard of Fameuse, not as fruit on a special branch of a tree but it is supposed that they originated as a bud variation on some tree. These propagate true to type. The Banks Red Gravenstein which originated in Nova Scotia is an example of a "bud sport" but there are few of these "bud sports" which have been recorded so far.

INDIVIDUALITY IN APPLE TREES.

In the annual report for 1903 and in several of the reports since, yields have been published from individual trees of the same varieties of apples planted at the same time and growing under apparently very similar conditions. It has been shown that there was a great difference in the yields from different trees, some producing from two to three times as much as others. It is not known whether this difference in yield is due to a difference in the soil or whether, as some horticulturists believe, each bud of an apple has an individuality of its own which is perpetuated by propagation.

A table is given below of the yields of individual trees of McMahan, Patten, and McIntosh apples. There was a table giving the yields of Wealthy apple trees in previous reports, but these trees have now been thinned and are not now under very similar conditions.