

climatic conditions permit the cultivation of the pear: *Amarelle Hâtive*, *Strauss*, *Griotte Impériale*, *Olivet*, *Gros Gobet*.

The following list comprises varieties which appear to grade in hardiness with the Wealthy apple:

Späte Amarelle, *Fouchès*, *Morello*, *Minnesota Ostheim*, *Brusse-ler Braun*, *Orel 25*.

Among those of exceptional hardiness, and which should be tested along the northern border of the apple belt are: *Riga No. 18*, *Vladimir*, *Bessarabian* and *Schatten Amarelle*.

PROPAGATION.

Budding.—Cherries are propagated for commercial purposes almost entirely by budding. This consists in transferring a single bud of the desired variety to the stock or branch upon which it is to grow. The operation is usually performed during the month of August when (using a nurseryman's phrase), "the bark slips." It is effected by slicing a well ripened bud from a twig of the growth of the same season, and inserting it under the bark of the stock, where it is securely tied. If the operation is successful all the top above the inserted bud is cut off the following spring. By rubbing off and preventing the formation of other wood the whole growth of the stock is directed into this channel. In this way trees of suitable size for orchard planting are produced in two seasons. In the Western States where the snow fall is limited, some objections have been urged against this method of propagation on the ground of the prevalence of root injury, to the more or less tender stocks. In regions of abundant snow fall, as in the Province of Quebec and Eastern Ontario, this objection does not carry the same weight.

CROWN GRAFTING.

Root grafting as ordinarily practised when applied to the propagation of the cherry is attended with little success.

Crown grafting, which is inserting the scion in the crown or collar of the stock, at or a little below the surface of the ground, is in the experience of the writer a much more successful method. This may be done in winter, using stocks which have been stored for the purpose; or early in spring upon stocks already established, and undisturbed in the ground for a year. Prof. Budd claims satisfactory results when the stocks are taken up in the Autumn and grafted in

