

In fruits also many additional varieties have been obtained, both by cross-fertilization and selection. Useful varieties of gooseberries have been raised. Many new sorts of raspberries have been produced by crossing some of the leading varieties in cultivation, particularly the Cuthbert, a large red raspberry, as female, with a large black cap known as the Gregg as male. The progeny are all purple caps of large size, and some of them are very prolific.

Probably the most interesting of all the new crosses are the hybrids which have been obtained between the black currant *Ribes nigrum* as female and the white variety of the red currant *Ribes rubrum* as male, also the black currant as female with the gooseberry *Ribes grossularia* as male. Many of these hybrids show the gooseberry and white currant blood very distinctly in their foliage and also in their flowers. Most of those which partake of the gooseberry and white currant types, although raised from seed of the black currant, have entirely lost in their foliage the strong and characteristic odour of the black currant. In two instances only in this class have I been able to detect this odour, and in both of these it is faint. The gooseberry and white currant blood in these hybrids is also recognized by insects and parasitic plants. The gooseberry saw-fly *Nematus ventricosus*, which avoids the black currant, feeds freely on these hybrids, and the mildew *Sphaerotheca mors-aeae*, which attacks the foliage of the gooseberry but does not affect the black currant, thrives on the hybrids. The flower clusters are intermediate in character between the parents, and usually have from three to five and in some instances as many as seven and eight in a bunch, thus resembling the black currant. No thorns have in any instance been found on the wood. Notwithstanding that flowers have been produced on many of the bushes in abundance during the past season, and careful examination has failed to detect any defect in the sexual organs or the pollen, none of the fruit has set.

Several hybrids have also been obtained between one of the cultivated red raspberries *Rubus strigosus*, known as Marlboro, female, and an improved form of the blackberry *Rubus villosus*, known as Agawan, male. One of these will probably fruit in 1895.