



(FIG. 1354 — A branch of *Pyrus baccata* in fruit, half natural size.

many of which surpass in vigor and perfection of form and coloring any hitherto known. His dark foliaged cannas of the French type excel in quantity and vigor the latest continental introductions. About a dozen of these creations are described in his catalogue for 1898.

Mr. Wm. Saunders, Director of the Experimental Farms of the Dominion, has produced new varieties of wheat, barley and peas. From the report of 1896 we gather that seven of the fifteen

varieties of cross-bred spring wheat rank among the twelve sorts which averaged the heaviest crops at the six experimental farms. One of them, the Preston, a cross between the Ladoga and Red Fife, in a three years' test at all these farms, exceeded every other sort by two bushels per acre, and at the Central Farm, Ottawa, by three bushels per acre. The object sought has been achieved, namely, to increase the number of vigorous and productive sorts of high quality and early ripening. In barley, where it was sought to induce earlier ripening in the two-rowed; and in the six-rowed longer heads and a greater propensity to stooling; in addition to increasing the number of vigorous and productive varieties, remarkable results have been secured.

Seven of the new creations in the two-rowed appear in the fourteen sorts that in the tests at all the farms took rank among the six most productive, and four in the six-rowed out of the fifteen. In peas, sixteen of the cross-breeds take their place among the thirty-two sorts which ranked in like tests as of the twelve most productive.

Seven years of experiment in our North West has demonstrated that the hardiest fruit trees obtained from Russia and elsewhere give no reasonable hope of