

from -32 to -34 R. that is from -40 to -44 Fahr., and one day it fell to -35 R, that is to -46 $\frac{3}{4}$ Fahr. This was the register on the college farm at Petrovskoe, and caused sad injury to the young orchard, for here Mr. Shroeder had a heavy soil which tended to produce late growth, as well as a severe climate to contend with. Of all the varieties in the orchard which stood the best? The Koritschnovoes and the Arcads; and of the Arcads the Dlennuui or long arcad seemed about the best. At Voronesh Mr. Fischer tells us of six kinds of Arcad, all much alike, early and sweet; but he says that the tree though apparently hardy does not live anything like as long as Antonovka, of which latter he shows fine healthy trees 40 years planted, whereas the Arcads usually die at 20; that is, they die by degrees, branch by branch, one might suppose like our Canada Baldwin, on warm soils from sun scald caused by early flow of sap, so that perhaps it needs heavier soil.

Dr. Regel in his work describes a Red Arcad, which is an apple of first quality that keeps all winter. The colored print of it is perhaps the most strikingly beautiful in the book. I enquired in many places about this apple, but could get no information about it. An apple of such beauty is worth looking after.

BERESINSKOE. Mr. Shroeder speaks of this as a large whiteish apple with yellow side, flesh firm but breaking, not able to bear carriage well, but a very fine autumn dessert fruit.

BERIOSOVKA. This we met and took a great fancy to in the Kozlof market. As we saw it there, it was a fruit of full medium size, oblate, red on one side in splashes and specks; very firm, yet breaking, very juicy, with a fine mingling of sub acid and sweetness. The seeds were black on 13 Sept., yet it seemed likely to keep two months. At Voronesh, we showed a specimen to Mr. Fischer who pronounced it true to name, and moreover said it was a good hardy and productive tree and a fine fruit. Season late autumn.

BLACKWOOD (*Tchernoe Derevo*) is a tree long known upon the Volga. At Khvalinsk we saw trees of it at least 70 years old, and at Kazan trees 30 years of age. It is a heavy bearer but not a tree of extra hardiness. It does not sun-scald, but its upper