

## Change of forest use and current state of coppice forest in Nenoshiroishi near Sendai

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Coppice forest had been repeatedly felled in an interval of about 15 to 30 years in order to produce and provide fuel wood and charcoal. A charcoal production worker produced 1,500kg of the charcoal in the winter of 2009-2010 in Nenoshiroishi near Sendai. The felled area is approximately 800 square meters. The amount of production of charcoal was approximately 3,000,000kg per year in Nenoshiroishi in the 1930s, therefore the felled area is calculated approximately 1.6 square kilometers per year at that time. After the fuel revolution in the late 1950s and the early 1960s, felled area rapidly decreases, and trees have grown to large sized. In recent years, mass mortality of oak trees has been expanding rapidly in Nenoshiroishi. Growth of the tree is considered to one of the causes of mass mortality of oak trees.

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