

An Aspect of Occurrence and Physico-chemical properties of Flat Leaf Tobacco in Bulk Curing

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ABSTRACT : The occurrence and physico-chemical properties of flat leaves found in 1997 curing trial of flue-cured tobacco related to the prevention of occurrence of flat leaves at bulk curing were investigated to compare with those of normal leaves. The flat leaves were mostly found among the leaves harvested from lower stalk position, and it was estimated that growth rate of lower leaves also influenced on the occurrence of flat leaves. In chromatic aberration of cured leaf, flat leaves showed remarkably lower b and L values than in those of normals but there was no difference in a value. On the other hand, in chemical analyses of flat leaf samples, nicotine, total sugar, ether extract and total nitrogen contents were decreased with the degree of flat symptoms. In physical properties, filling capacity of cured leaves was decreased with the degree of flat symptoms comparing with those of normal leaves, while shatter index were showed a reverse tendency, and then within the same leaf, flat parts were decreased in total sugar, ether extract and filling capacity compared with those of normal ones, but remarkably increased in shatter index, and there was no difference in nicotine and total nitrogen contents.