Study on the growth rate of six species of ornamental trees in Urban green space Rasht county

Ramin Abbasghilizadeh*,yahya Tajvar,

Trees make the urban spaces more beautiful and make the structure of the spatial spaces smoother. Trees and plants have a very varied variety, each of which has meaning and a symbolic theme. Some trees and plants are bulky, and others are always green, which during the year makes a different face for urban citizens. Trees such as Ginkgo biloba, Liquidambar styraciflua L, Parrotia persica, Zelkova carpinifolia, Acer negundo, Fraxinus rotundifolia Mill are important in urban green spaces. The purpose of this research is to predict the growth rate of the six species with respect to mathematical relationships for better use in urban green space in Rasht. In this research, was used the independent index (age and affinity) (height, trunk height, crown diameter). To investigate were used the relationship between these indices, various regressions (linear, logarithmic, exponential, power, polynomial). The results of this study showed that the polynomial regression functions have the highest explanatory factor for prediction of growth indices in relation to the age of the tree in the urban green space in order to create beauty, prevent costs, eliminate the causes of disturbances for commuting, urban equipment, and ultimately Sustainable ecological development.

Keywords : Green space, Rasht, Ornamental trees, Growth rate