The aim of this study was to compare the data sets used in land use / land cover in terms of their content and analyze their classification systems. The work is focused on the capital city of Prague and its surroundings. The data used are described and characterized. Review was made for available data sets on a general level, especially focusing on their classification systems. For further work was chosen model area containing four cadastral (Čestlice, Křeslice, Průhonice, Újezd u Průhonic). In the model area was made analysis of data, which focused on a comparison of classification systems using spatial overlays, status and map of changes. The resulting synthesis was carried out on the basis of a general review and analysis carried out for the model area. The results of the work answer to the fundamental objectives of the work and try to describe the basic knowledge of the different and identical parameters of studied data sets.