

## **Abstract**

This thesis deals with the monitoring of numerous rate of domestic pigeon (*Columba livia* f. *Domestica*, hereinafter referred to as pigeon) in a given area and its spatial activity. The work includes incidence monitoring of individual pigeons depending on daytime and weather. The monitoring was carried out by observational method in the period from February to May 2015. The observations were related to individuals who occurred the monitored area (the buildings in Dukelských hrdinů street). Furthermore, the work compares the results from population census of Prague pigeon and the results from census of other European cities. It was further investigated whether the amount of pigeons in the area is affected by abiotic conditions (air temperature and weather). The result of the thesis should contribute to better knowledge of overall pigeon rate determining in the capital city of Prague. The collected data may help to gain a deeper knowledge of the entire population ecology living in this territory. They can also be beneficial, for example, in reducing of the pigeon numbers or serve in other investigations.

Key words: pigeon, Domestic Pigeons (*Columba livia* f. *domestica*), abundance, monitoring, abiotic conditions, population