

## **Abstract**

**Title:** Performance development of the triple jump

**Objectives:** The aim of this work is observation and analysis of the performance in the triple jump. The work discusses the development in the world records in the triple jump, the development of triple jumpers on the top-level competitions such as OG, WC, EC, and the observation of the developmental trends in the years between 2000 – 2010 of the top ten, thirty and fifty triple jumpers in the world. The secondary aim is to investigate different factors, that influence the triple jumper's performance.

**Methods:** In this thesis was used a method of analysis and a method of comparison. The analysis of the development in the triple jump's performance proceed from the observation of the development in the world records in the years 1911 – 2011. The comparison of the performance proceed from the performance of medallists in the contemporary OG between the years 1896 – 2008, then in the WC between the years 1983 – 2009 and in the EC organised between 1934 – 2010. The method of analysis and the method of comparison was applied for the top fifty triple jumpers in the world in each year between 2000 – 2010 as well. In these aforementioned periods we assessed the change in the performance depending on different factors.

**Results:** In conclusion, it was found out that triple jumper's performance is influenced by many different factors. The development of the world record and the development of the performance on the top-level competitions was changing with changes of the training methods, financial situation in the sport, altitude, in which the competitions were organised, weather conditions, the wind power and it's direction, and regulation of doping. It is difficult to predict future performance development because of these different factors.

**Keywords:** triple jump, development, performance, top-level competition