Recent increased population and globalization, have threatened inhabitants of wild plants and animals. Even though this situation is worrying, many people become neither aware of this threat and decrease, nor they know about endangered plants and animals. This study was conducted in order to examine the effects of drugs with thiamethoxam active substance on wasps that are common in both our country and Europe and that are known as yellow jacket in Europe and digger wasp in Turkey. For this purpose, wasps were directly fed with commonly used dosage of thiamethoxam in agricultural fields and diluted version of this dosage; then the changes in body motor movements were monitored and recorded. In the study, 15 ml/100-L-water dose of thiamethoxam and 6 separate doses (7.5, 3.75, 1.87, 0.93, 0.46, 0.23, 0.12) prepared by diluting this dose by %50 were used in forms of 2 molar syrup. Furthermore, the same dosages were sprayed over wasps and lifetime of wasps was determined. As a result of the study, it was concluded that normally used dosage and diluted dosage of thiamethoxam killed wasps and compared to control group, lifetime of experiment group wasps became shorter.