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*Does the Weight of an Arrow Affect Puncture Depth?*

The purpose of this investigation was to find out which weight of arrow punctures the deepest. This project is important because it could help new archers pick the right arrow tip. Being a fairly new archer, experience has shown that it is very difficult to choose. This project helps relieve with their lack of understanding. This project is very informative and it's encouraged to follow the data found. The problem solved in this investigation was directed mainly for young or beginning archers. This project proved that the heavier the arrow then the deeper the puncture. This project had a simple procedure. The plan of this project was to buy the three different arrow weights and put them on to the same types of arrow shaft. Once this was done they were each shot 100 times and data was recorded using inches. The data showed that the 125 Gram arrow tip punctured the deepest. The deepest puncture of the test was 25 inches; the least amount was 16 inches. Sixteen inches is one of the deepest punctures for the 100 Gram test. The 75 Gram tests results showed even less puncture. This shows that the 125 Gram test did best. The original hypothesis for this project is accepted. Originally it was thought that the 125 Gram test would do best, and the data does show for that.