Let $G$ be a connected graph, $n$ the order of $G$, and $f$ (resp. $t$) the maximum order of an induced forest (resp. tree) in $G$. We give upper bounds for $f-t$ (depending upon the value of $n$) and show that these bounds are tight. We give similar results for the difference between the stability number of $G$ and the maximum order of an induced tree in $G$. 