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Ralph J Faudree* (rfaudree@memphis.edu), Office of Provost, Administration Building 360, University of Memphis, Memphis, TN 38152. *Recent Results on Saturated Graphs*. Preliminary report.

Given a graph H , a graph G is H -saturated if there is no copy of H in G , but H is isomorphic to a subgraph of $G + e$ for any edge $e \notin G$. The collection of H -saturated graphs of order n is denoted by $SAT(n, H)$, and the *saturation number* $sat(n, H)$ is the minimum number of edges in a graph in $SAT(n, H)$. A survey of results on saturated graphs will be presented with an emphasis on some recent results on the saturation numbers for disjoint unions of complete graphs, books, and certain families of trees. (Received January 29, 2008)