We study the $t$-spectrum of a Noetherian domain. (For a Noetherian domain a prime ideal is a $t$-ideal $\iff$ it is divisorial $\iff$ it is an associated prime of a principal ideal.) We prove that there are Noetherian domains of arbitrary $t$-dimension (including $\infty$) and that every finite poset with minimum element occurs as a saturated subset of the $t$-spectrum of a Noetherian domain. A corollary of this latter result is that any finite amount of non-catenary behavior can occur in the $t$-spectrum of a Noetherian domain. Pullbacks play a vital role in our constructions. (Received September 15, 2008)