The zero-divisor graph of a commutative ring $R$, denoted $\Gamma(R)$, is a graph whose vertices are the nonzero zero-divisors of the ring $R$ with edges drawn between vertices $x$ and $y$ if and only if $xy = 0$. In a paper from 2006, Shane Redmond classified all finite rings with identity that had zero-divisor graphs on vertices $\leq 14$. We look at extending this work to commutative rings without an identity. (Received September 19, 2016)