1003-03-177   **Peter Cholak*** (`Peter.Cholak.1@nd.edu`), 255 Hurley, Department of Mathematics, Notre Dame, IN 46556-4618, and **Alberto Marcone** and **Reed Solomon**. *Reverse mathematics and the equivalence of definitions for well and better quasi-orders.*

We present several classically equivalent definitions of well and better quasi ordering and study the reverse mathematics of implications among them, and of various combinatorial principles which have arisen in the recent literature, such as CAC, WKL_0, $RT^1_{<\infty}$, and others. (Received August 18, 2004)