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We consider a stochastic Beverton-Holt difference equation, in which both the recruitment function and the survival rate vary randomly. In this talk we develop a basic theory of mean almost periodic random sequences on \mathbb{Z}_+ and provide a method to constructing mean almost periodic random sequences on \mathbb{Z}_+ . These techniques are, subsequently, used to find some sufficient conditions for the existence and uniqueness of a mean almost periodic solution of the Beverton-Holt equation. (Received September 21, 2011)