The first detailed compilation of Brazilian seismicity was published in 1984 and included about ten cases of Reservoir Triggered Seismicity (RTS). Since then, more than 40 cases were registered and compiled. The objective of this research is to understand the nature of RTS that has been observed to date, particularly in Brazil. We will present a synopsis of the historical cases of RTS in Brazil, a review of the lithology of the hypocentral areas, the reservoir characteristics and filling history and more details will be given to the case in Irapé Reservoir. In general, we can observe that, in Brazil most RTS are of the Initial and Rapid Response type (following the initial filling of the reservoir). Another characteristic is: the RTS generally occur in boundary province, although the number of dams and hydroelectric power is larger than in the provinces. RTS is still not well understood and this work shows that more work is necessary in this field in Brazil. Finally it is important to observe that seismic frequency can change after the build of a dam.