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It has been suggested that the bush warbler (*Cettia diphone*) uses different song types in different situation and habitat. We analyzed song features and conducted playback experiments, in order to reveal the function of song of the bush warbler. The song types of bush warbler were identified in the habitat and behaviors. The bush warbler in inland songs beta song (normal song) and short song , while the birds in island song alpa and beta songs. In the playback experiments in the inland, bush warblers sang high rates of short song type for the first three min after-playback. After 6 min of playback, most males returned to singing normal songs. The bush warbler in the island songs a significantly higher proportion beta song during the playback compared to spontaneous songs. These results suggest that the bush warbler may song in the ecological behavior and the comparison between two groups can give insight into the evolution of song types.