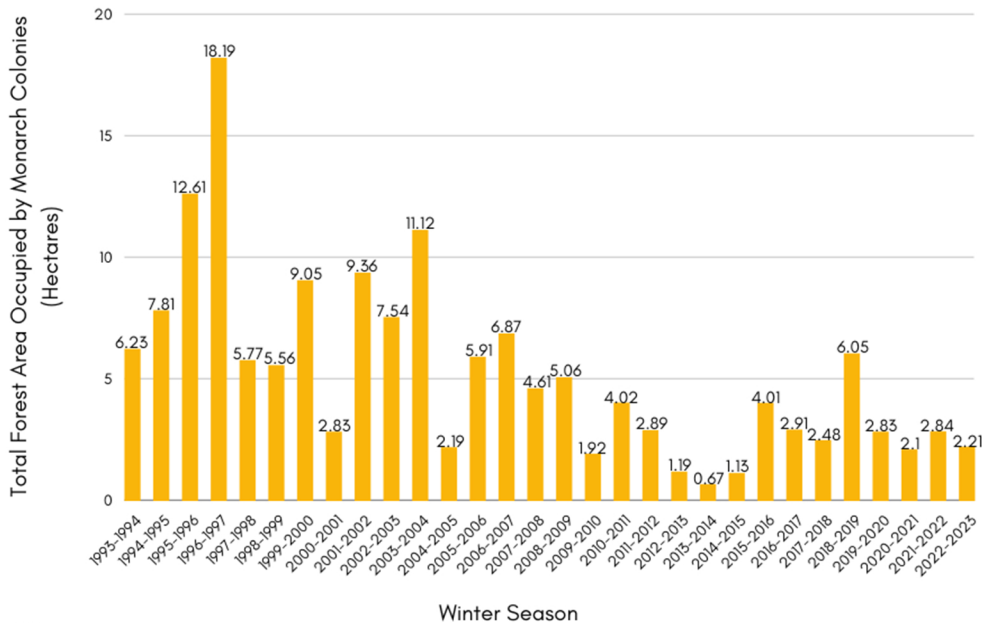


Total Area Occupied by Monarchs at Overwintering Sites in Mexico 1993/1994 - 2022/2023



Scientists estimate that a minimum of 6 hectares of overwintering monarchs is needed to sustain the easter populations (Semmens et al., 2016)

Data from 1994-2003 were collected by personnel of the Monarch Butterfly Biosphere Reserve (MBBR) of the National Commission of Protected Natural Areas (CONANP) in Mexico. Data from 2004-2023 were collected by the WWF-Telcel Alliance, in coordination with the Directorate of the MBBR. 2000-2001 number as reported by Garcia-Serrano et al. in 2004