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A noninvasive demographic assessment of the sea lions base on stage-specific abundance

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A pressing need exists to develop new approaches for obtaining information on demographic rates without causing further threats to imperiled animal populations. In this paper, we illustrate and apply a data-fitting technique based on quadratic programming that uses stage-specific abundance data to estimate demographic rates and asymptotic population growth rates (

Palabras clave: Specialist, antibacteriana, california sea lion, *zalophus californianus*, demography, abundance, inverse estimation, marine mammals, noninvasive techniques, population viability analysis, quadratic programming

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