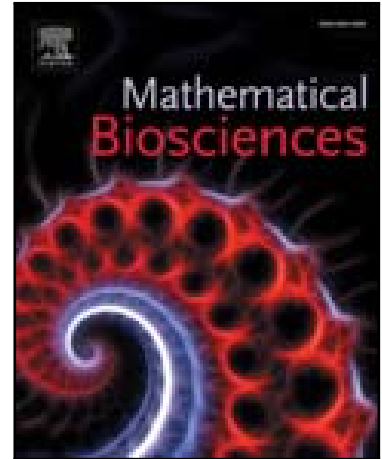


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Carrying capacity influence on the incomes of seiners exploiting marine species in the Atlantic coast of Morocco

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Highlights

- This paper is devoted to studying a bioeconomic model of several seiners exploiting *Sardina pilchardus*, *Engraulis encrasicolus* and *Xiphias gladius* marine species in the Atlantic coast of Morocco based on the parameters given by 'Institut National de Recherche Halieutique' INRH.
- Local stability of the feasible equilibrium points of the biological model is established
- Maximize the profit of fishermen exploiting the three marine species
- Show that the carrying capacity influence on the profit of fishermen
- Solve a Generalized Nash Equilibrium problem GNE
- Solve linear complementarity problem LCP
- A numerical simulation is conducted in order to show this influence.

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