# Status and trends of artisanal fisheries in Nampula and Zambezia provinces, Mozambique 

USAID commissioned this study to better understand socioeconomic and ecological issues related to fisheries in this priority geography, including the current wellbeing of fishing communities and their prospects for the future.

## ~101,000 households

are involved in maritime fishing activities in Nampula and Zambezia

## 54\%

of marine artisanal catch in Mozambique is from Nampula and Zambezia
of households interviewed reported having sufficient income from fisheries.

## ~50\%

On average coastal households reported $50 \%$ of their income came from fishing, and their fishing income was sufficient to meet family needs when it exceeded 35,200 MZN (equivalent of catching 3.2 mt of fish/year).

Fishing Gear Types


Beach Seine | 37\% catch
5,300 beach seines in both provinces and each net is associated with 9-22 fishers. In 2024, a regulation prohibiting beach seining will come into effect. While this measure is ecologically desirable, its impact on fishers requires additional attention and planning.

Gil Net | $8 \%$ catch


7,109 gill net gears in both provinces and each gill net has 5-8 fishers associated.

Hook and Line | 22\% catch


6,481 gears in both provinces and each hook and line has I-8 fisher(s) associated.

Figure I. Percentage of households able to meet basic family needs from fishing under different fishery management scenarios

The modeling results demonstrate the importance of both improved fisheries management and income diversification for coastal households in the study area. In the absence of improved fisheries management, the number of households earning sufficient income to meet their basic needs will continue to decline. Concurrently, coastal households need additional income sources to adjust to improved fishery management practices, support new entrants to fisheries with population growth, and increase the number of households earning income levels that provide economic security.


## Ecological hotspots \& fisher populations


$\%$ of in population


Fisher population represented by color gradient and ecological hotspots highlighted by red circles. Ecological hotspots provide critical spawning, foraging and nursery habitat and are major larval source and sink areas.
*The ecological hotspots (red circles) shown are areas of particular importance for supporting fisheries based on the habitats present and their role in fish foraging, spawning, and larval connectivity. These hotspots were identified through spatial prioritization models for coral reef dependent fish species in six districts across the study area.

Map 2
Fishing Effort


Effort (Number of gears, per year)


Total number of gears reported in 2019 represented by color gradient with the proportion of catch reported from beach sienes overlaid.

Map 3
Household Food Insecurity

\% of coastal households


Percent of households that answered (on a Likert scale) unsure, a high chance, or certain to have a food shortage in the next 12 months represented by color gradient, and the comparative proportions displayed in the concentric circles.

