

**Social Wellbeing & Policy Indicator Ranking Results**

**Healthy Reefs for Healthy People**

Social Well-being/Policy Issue	Social Wellbeing/Policy questions	Indicator	Measurement	Type			Spatial level			Criteria I	Criteria II	Criteria III	Criteria IV	Criteria V
				Pressure	State	Response	National	Regional	Local	Relevance to the MAR	Data Availability	Scientific Soundness	Management responsiveness	Transparency and Understandability
<b>1. Population dynamics</b>	<i>Are population dynamics sustainable?</i>	Population living in coastal areas	– Dynamics of population within a certain distance from the coast (national or watershed level; district level, coastal urban centers)	x			x	x		Moderate	Moderate	High	Low	High
		Migration rate	– Difference between the number of in-migrants and out-migrants		x			x	x	Moderate	Moderate	Moderate	Low	Low
<b>2. Poverty</b>	<i>Are income levels distributed fairly?</i>	Income levels and composition	– Income levels and composition by household		x		x	x	x	Moderate	Moderate	Moderate	Low	Moderate
	<i>Are current policies addressing the reduction and eradication of poverty?</i>	Population below national poverty line	– Proportion of the population with a standard of living below the national poverty line		x		x	x	x	Moderate	Moderate	Moderate	Low	Moderate
<b>3. Sanitation</b>	<i>Are existing policies addressing the reduction of nutrients and organic matter?</i>	Population served by wastewater treatment systems	– Proportion of population served by biological and/or chemical wastewater treatment systems			x	x	x	x	High	Low	Moderate	Moderate	High
	<i>Is there equity in the access to sanitation?</i>	Population with access to improved sanitation	– Proportion of population with access to sanitation facilities			x	x	x	x	High	Moderate	Moderate	Moderate	High
<b>4. Coastal development</b>	<i>What is the demand for land in the coastal area?</i>	Area of urban formal and informal settlements	– Change in the area occupied by formal and informal settlements	x				x	x	Moderate	Low	Moderate	Low	Moderate
	<i>Is the coastline being artificialized?</i>	Built-up area in the coastal zone	– Changes in hard surface in the coastal area	x				x	x	Low	Low	Moderate	Low	Moderate
<b>5. Tourism</b>	<i>Is tourism carrying capacity being reached in some sites?</i>	Tourism intensity	– Number of hotels and rooms – Number of tourism arrivals and/or stays, including reef-based activities – Number of berths and moorings in marinas – Value of tourism economy	x			x	x	x	Moderate	Moderate	Moderate	Low	Moderate
	<i>Are forms of sustainable tourism being introduced?</i>	Tourism services	– Number of hotels provided with essential services – Number of environmental certification for tourism establishments awarded			x	x	x	x	Moderate	Low	Low	Low	High
<b>6. Fisheries and aquaculture</b>	<i>Is fishing carried out on a sustainable basis?</i>	Fishing pressure	– Total catch of commercial fish, crustaceans and shellfish species by area – Value of catch	x			x	x	x	High	High	High	Moderate	High
	<i>Is aquaculture development occurring at the expenses of priority habitats?</i>	Aquaculture development	– Total area occupied for aquaculture siting – Total aquaculture production	x			x	x	x	High	Low	Moderate	Moderate	Moderate

	<i>priority habitats:</i>		– Total value of aquaculture production											
<b>7. Agriculture</b>	<i>Is intensive agriculture posing environmental threats?</i>	Pesticides and fertilizers [in alternative, land use change in watershed]	– Pesticides and fertilizers (100 grams/ha of arable land)	x			x	x		High	Moderate	Moderate	Moderate	Moderate
	<i>Is agriculture progressing towards more sustainable forms?</i>	Area under organic farming	– Proportion of agriculture area certified for sustainable farming practices			x	x	x		High	Moderate	Moderate	Moderate	High
<b>8. Marine transportation</b>	<i>Is marine transportation posing environmental threats?</i>	Transportation of oil and chemicals by ships	– Quantities of oil and chemicals transported by ships	x			x	x	x	High	Moderate	Moderate	Low	Moderate
	<i>Are ports equipped to treat ship wastes?</i>	Port reception facilities for ship wastes	– Percent major ports equipped with ship waste collection facilities			x	x	x		Moderate	Moderate	Moderate	Low	High

Ranking results are adapted from: Maffi et al., draft report for World Bank (2004).