

Table 1. Social science potential indicators matrix. This is the start of social science indicators, with information and better metrics evolving with time, money, and capacity. For more detailed information or links to reports/data, see the individual indicator subheading.

Indicator	Criteria	Objective Information			Subjective Info.	Actions		End Goal	
		Scale of data	Limitations/Caveats	Status/Gaps	Subjectivity*	Tasks	Who	Outputs	Outcomes
Public Access	Number of access points/spaces	Town, state, watershed, study area	Currently only know shoreline, saltwater access points; RI has location of parks	Need to know parks (MA & CT), river access, FW beaches		Define point/space for FW/SW beaches, parks, river access, shoreline access	NBEP	Comprehensive public access database with GIS layers	Increased knowledge of where public access points/spaces are
	Space user Demographics		Known for popular shoreline activities (EPA/NBEP study)	Need to expand to other points/spaces		Use cell-phone data (or other data) to determine			Increased knowledge of who's using the spaces
	Travel time to points/space			Need to know walking, car, bus travel times		Define travel time and start/end points			Increased knowledge of where the most accessible spaces are
	Quality of access points/spaces		Most data pertaining to quality is water or habitat quality, not other measures of quality	Need to expand datasets to other points/spaces	Quality can be subjective; need to define with metrics that we have or can be quantified	Use Impaired Waters list, beach closures, Toxic Release Inventory, Park Score.		Linked water quality information to public access database	Increase quality of public access points/spaces
Resilient Municipalities	Participation in resiliency programs (e.g., MVP, MRP, CIRCA, etc.)	Town-level only; could scale to state level	Limited by program funding, town capacity, and town eligibility	Known by the groups administering the programs, could be cataloged for study area	This indicator could be a comparison of "haves" and "have-nots."	Collect information from groups administering these programs	NBEP or Partners (could be done by Interns)	Database of information on how towns have considered preparing for or are implementing plans to be resilient with a changing climate	Increased understanding of resilience
	Has resilience plan/manager (or similar)		Limited by town capacity	Need to define "plan" and need to know if towns have them	Could towns be categorized/ranked by external factor (like population or median income)?	Collect information from the internet for all towns in study area			Find focus geographies to increase resiliency preparedness
	Implementing Resiliency (or similar) Plan		Limited by town capacity	Need to define "implementing" and how towns are doing this					
Public Health	Location of heat islands	Census block, town, state, watershed, study areas	Need to think through how to decrease heat islands; could looking at tree cover help?	Need to know for the study area	Will be very focused on urban areas	Map heat islands and tree cover. Incorporate into EJ Tool	NBEP	Comprehensive database of public health threats with GIS layers	Increased understanding of heat islands and flood risk to the study areas
	Location of flood risk		Current information (STORMtools) only covers sea level rise	Need to know for rainfall, sea level rise, storm surge, and river flooding	Will highlight socioeconomic differences if mapped with EJ tool	Map flood risk from sea level rise, storms, and rivers.			More detailed EJ Tool for understanding heat and flood risks
Watershed Economy	Employment and revenue supported by natural resources	State scale, watershed, study areas	"Natural resources" is a broad category	Known from a 2019 URI report (limited areas)	These metrics will paint an incomplete picture. With proper caveats, that may be OK for our purposes	Update 2019 report and conduct a literature review for additional materials	Hire Consultant	Start of an economic review for watershed or Vision 2032.	Increased understanding of how employment, revenue, and investments impact the study area
	Investments in watershed restoration & preservation	Town, state, watershed, study area	Expand on 2019 URI report	Need more information from partners to use NEPORT		Collect data from NEPORT	NBEP		

*These indicators can be very subjective in nature – for example, what is "good" or "healthy" – therefore, we are trying to be as objective as possible. This category highlights some major areas of subjectivity that may possible skew results or create confusion.

**Who refers to who can/will complete the tasks.