



Job Aid: Sample Indicators and Metrics of Adaptation Success and Progress: Economic Aspects

This list constitutes a sample of possible indicators and metrics that point to climate adaptation success and/or progress. It is derived from work with communities in Maine, New York, New Jersey, California and Alaska. For a larger list of indicators and possible metrics brainstormed by these communities, look for a searchable Excel spreadsheet in the Resources section of www.resiliencemetrics.org, called "SAIM Project_Indicator Brainstorm_all.xlsx" (status January 2020). Indicators can be searched by adaptation strategy, location, sector, or the six dimensions of adaptation success described at www.resiliencemetrics.org. This list is not refined, ranked or vetted by any scientific or governance entity although some indicators are in use. The list is solely offered to support other users' creative thinking and brainstorming of indicators/metrics that suit their unique situations.

Adaptation Strategy	Indicators	Metrics	Process	Capacity	Barriers	Decision-making	Action	Outcome
Implement flood mitigation measures	Cost effectiveness	\$ saved or \$ in damages avoided/\$ expenditure						x
Implement adaptation pathways	Cumulative damages	Damage totals/event or /year as triggers for moving to next set of adaptation strategies				x	x	x
Buy-outs/relocation of properties and restoration as natural habitat (birding, fishing, recreation)	Economic benefit	# of employees; \$ income; \$ tax income for community from tourism/recreation sector						x
Improve community resilience	Economic resilience	% of HH income or community tax income from a single economic sector or employer; # of larger employers in community; seasonal employment						x
Increase economic opportunities and resilience	Economic security/ well-being	# of child care places/year, determination of living wage in City, region (\$/person or HH), employment rate, # of business start-ups/closures; diversity of economic sources of income		x				x
Ensure resilient waterfront economic development	Employment along waterfront	Changes in employment over time (total or %); number of slips (boating); occupancy of marinas; hotel tax						x
Improve community resilience	Market access	# of days of impassable roads, bridges etc. to transport products to market			x			x



This job aid was created to serve as a reference for individuals interested in indicators and metrics to help communities define and track progress on their climate adaptation goals. Additional background and resources are available on the website: www.ResilienceMetrics.org. This website was developed in partnership with the National Estuarine Research Reserve System with funding from NOAA.



Adaptation Strategy	Indicators	Metrics	Process	Capacity	Barriers	Decision-making	Action	Outcome
Improve business preparedness	Private sector preparedness	% of businesses with disaster preparedness/recovery/business continuity plans; % of sensitive equipment elevated above BFE; time for businesses to reopen after event		x			x	
Reduce flood vulnerabilities to homes	Property loss/damage	\$ in damages sustained in event; # of houses damaged/lost in event						x
Monitor and plan for expected population increase	Real estate values	Rate/trend of sales; changes in zoning; absolute # of new developments			x			x
Provide trainings and support to increase decision-makers' capacity to adapt to climate change	Sustained funding	% success in grant proposals that support trainings/technical assistance; diversity of funding			x		x	x
Integrate climate change into capital improvement plans/infrastructure planning	Willingness to pay	Sales tax increase is passed (dedicated to a major infrastructure project)			x		x	
[result of all adaptation efforts combined]	Overall flood preparedness	Total damage in dollars is less than in equivalent past event						x