

Adaptation Strategy List and Costs Table

Note: All costs provided are estimates developed for the purpose of the game only. Where possible, they are derived from reports, case studies, and expert judgement. They are illustrative only, and will vary greatly depending on location, exact design of strategy, permitting requirements, construction costs, and vulnerability of the asset (among other variables).

Adaptation Type	Strategy	Lifespan (years)	Unit	Cost (3.3 ft SLR)	Cost (6.6 ft SLR)	Hazards Addressed	Can be combined with
Policy	Update Land Use Regulations	Long-term		\$250,000	N/A	All hazards	
Policy	Resilient Development Standards	Long-term		\$250,000	N/A	All hazards	
Policy	Acquisition and Buyout Programs	Long-term	per structure	\$1,000,000	N/A	All hazards	
Policy	Transfer of Development Rights	Long-term		\$100,000	N/A	All hazards	
Asset-Specific	Structure Elevation	50	per structure	\$100,000	\$200,000	Flooding (all types)	
Asset-Specific	Structure Floodproofing	15	per structure	\$20,000	\$20,000	Temporary flooding, up to 3 feet deep	
Asset-Specific	Structure Relocation	Long-term	per structure	\$200,000	\$200,000	All hazards	
Protect	Rip-Rap Revetment	25	per linear foot	\$2,000	\$4,000	Coastal erosion	Elevated roadway, dune restoration (extends lifespan to 30 years)
Protect	Seawall	100	per linear foot	\$12,000	\$24,000	Temporary and permanent flooding, coastal erosion	
Protect	Raising Inner Breakwaters	50	per linear foot total length ~4,000 ft	\$2,000	\$4,000	Life safety, wave hazards	All strategies
Protect	Raising Outer Breakwaters	50	per linear foot total length ~7,500 ft	\$8,000	\$16,000	Coastal erosion	All strategies
Protect	New Inner Breakwater	75	per linear foot	\$6,000	\$12,000	Coastal erosion	All strategies, will prolong life of beach nourishment
Protect	Elevated Roadway	50	per linear foot	\$8,000	\$16,000	Temporary and permanent flooding	Rip-rap revetment (coastal erosion), beach nourishment
Protect	Traditional Levee	50	per linear foot	\$5,000	\$10,000	Temporary and permanent flooding, coastal erosion	Beach nourishment
Protect	Beach Nourishment	5	per linear foot	\$1,000	N/A	Coastal erosion (1 large event)	All strategies, except seawall
Protect	Dune Restoration	10	per linear foot	\$3,000	\$6,000	Temporary and permanent flooding, coastal erosion	Beach nourishment, rip-rap revetment (extends lifespan to 30 years)
Protect	Marsh Enhancement	20	per acre total area ~25 acres	\$50,000	N/A	Marsh drowning due to sea level rise	