

· APPENDIX B ·

*The Economic and Environmental Price of Holding
the Shoreline Still with Hard Stabilization*

SEAWALLS

Economic price

Environmental price

Shore-parallel walls

\$2,000 to \$10,000/ft.

Extreme—eventual complete loss of beach

GROINS

Economic price

Environmental price

Shore-perpendicular walls

\$250 to \$6,500/ft.

Updrift beach widened; downdrift beaches lost

Costs of groins vary depending on materials used

Stone	\$1,200–\$6,500/ft.
Concrete, sheet steel	\$4,000–\$5,000/ft.
Timber	\$3,000–\$4,000/ft.
Geotextille (large sand bag)	\$250–\$1,000/ft.

JETTIES

Economic price

Environmental price

Shore-perpendicular structures next to inlet

Up to \$16,500/ft

Updrift beach widened; downdrift,
extreme beach loss

BREAKWATERS

Economic price

Environmental price

Shore-parallel but offshore

Up to \$10,000/ft

Trap sand as they widen local beaches but
cause severe downdrift erosion

SOURCE: Dollar figures are from the U.S. National Park Service's 2016 Coastal Strategies Handbook.