

# Shore Friendly Shoreline Armor Reduction Outreach & Incentives









## What is Shore Friendly?

- Regional social marketing program
- Encourage natural shorelines or alternatives to hard armor
- Remove or reduce barriers to behavior change
- Provides best available science for informed decision-making
- Non-regulatory
- Current focus is on private properties







### www.shorefriendly.org

















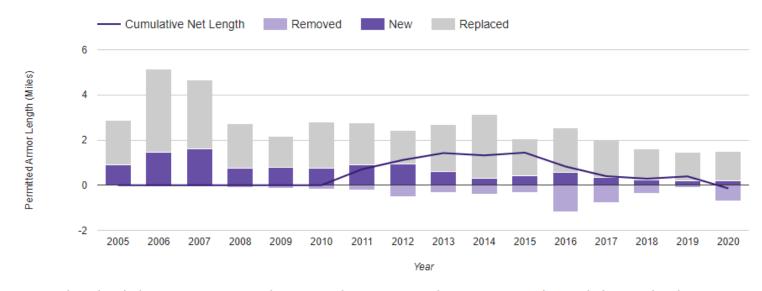
This project has been funded wholly or in part by the Washington Department of Fish and Wildlife Estuary Salmon Restoration Program. The contents does not necessarily reflect the views and policies of WDFW, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

#### **VITAL SIGN INDICATOR CHART**

#### Net change in permitted shoreline armor

By: Permitting Type

Options -

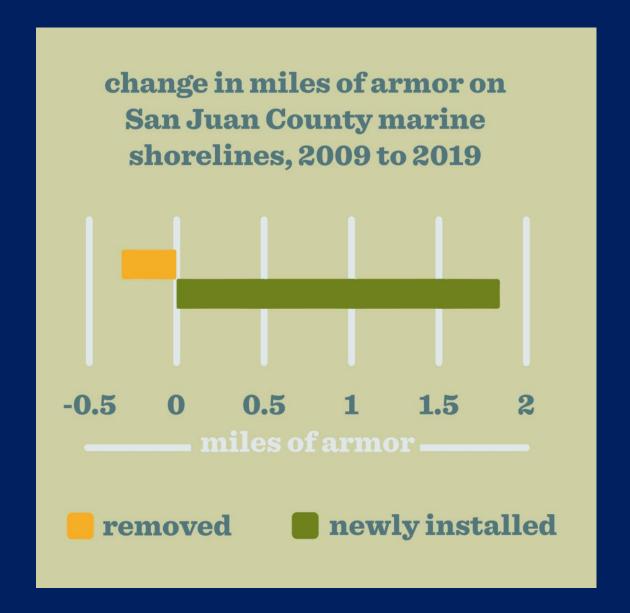


The annual length (shoreline miles) of new and removed shoreline armor permitted under the Washington Department of Fish and Wildlife Hydraulic Project Approval. The cumulative net change of shoreline armor is the sum total of the difference (new minus removed) between 2011 and 2020. Replacement of existing shoreline armor is the most common armor project but does not change the cumulative net length in permitted armor.

## Research Results *Armor Length*

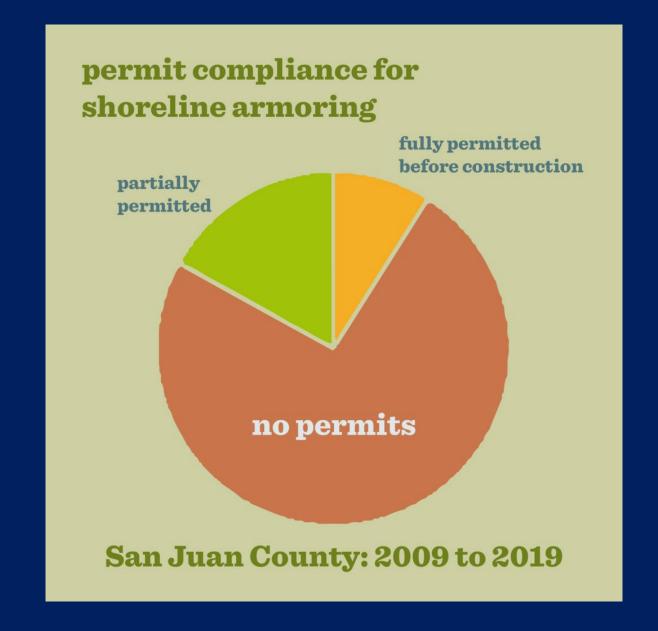
#### Note:

existing armor (present in 2009 and 2019) = 25 miles



Friends of the San Juans

## Armor Compliance



Friends of the San Juans



**Shore Friendly Living Workshops** 

**Shore Friendly Living Video Series** 

**Outreach Materials** 

**Community Beach Walks** 

Free site visits

**Engineering Design and Permitting Assistance** 

**Cost-Share Opportunities** 

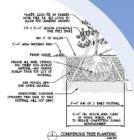














A guide to protecting your proper while promoting healthy shoreling the shoreling healthy shoreling he

Enjoy the beach. Protect your home. Improve shoreline habitat.



SHORELINE ARMOR IMPACTS



### Shoreline armor doesn't:

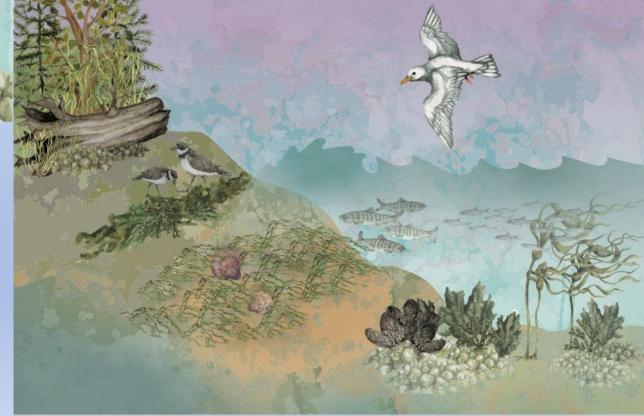
Prevent Coastal Flooding



#### Prevent Bluff Erosion







**Illustrations courtesy of Simone Des Roches** 

https://www.simonedr.com/

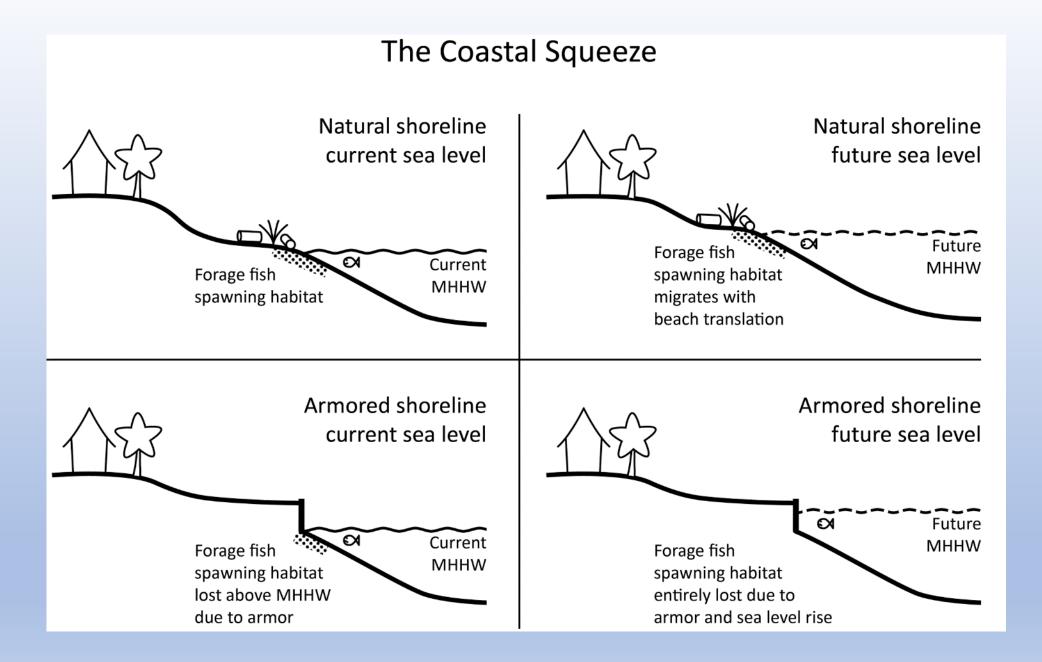


Figure from Coastal Geologic Services















- Loss of habitat connectivity
- \* Burial of beach and forage fish spawning habitat
- Loss of backshore berm
- Increase wave reflection
- Beach scour/erosion
- Loss of fines (sands)
- Impacts to littoral drift
- \* Reduced sediment input
- Proliferation and expansion
- Habitats simplified/lost

