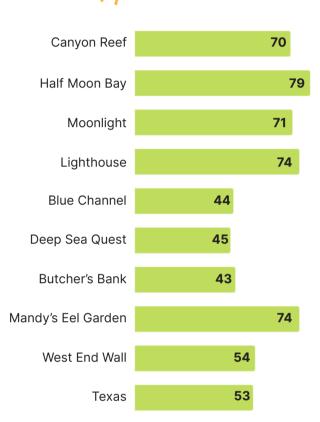


Carrying Capacity Case Study: West End & West Bay, Roatan, Honduras

BAY ISLANDS NATIONAL MARINE PARK ROATAN MARINE PARK

of Coutacts with Reef per Dive Site



Sustainable # of Divers per Year per Dive Site

5,065 6,779 Half Moon Bay Lighthouse 7,087 7,842 Mandy's Eel Garden Moonlight 8,077 14,072 Canyon Reef West End Wall 14,350 17,266 Texas Butcher's Bank

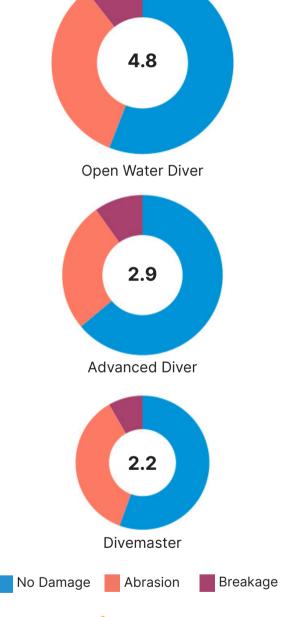
18,350

Deep Sea Quest

18,037

Blue Channel

of Coutacts with Reef per Certification Level



Observatious

Lower Certification Levels had a **greater impact** on coral reefs compared to higher and
more skilled certification levels.

The presence of a lionfish spear had a **greater** impact on coral reefs due to incorrect use.

Carrying capacity values should be adapted to each dive site since they experience different magnitudes of impacts and damage to the reef

Mouitored Dive Sites



Recommendations



Raise Awareness on the value of coral reefs through an environmental briefing of all divers before each dive.



Professionals must ensure divers have proper buoyancy control and maintain their distance from corals.



All divers hunting lionfish must be an Advanced Diver and receive the Combating Lionfish Invasion Spearfish Training from the Roatan Marine Park.



Consider Carrying Capacity as a tool to help control diver impacts on the reef.