**The Fragment Conundrum:**

**Issues With In-Water Fragmentation in Hawaii**

**Example: Imperforate Coral Species in Fiji (Growth Rate 20 cm/yr)**

Result in Fiji: After two years, source colony has recovered, which along with surviving new frag colonies (which are now at large size), offsets temporary loss in ecological services and functions. End result: considerable gain in ecological services within two years.

**Example: Imperforate Coral Species in Hawaii (Growth Rate 2 cm/yr)**

Result in Hawaii: After two years, source colony has grown only a little, which along with few surviving new frag colonies, does NOT offset the long-term loss in ecological services and functions. End result: considerable loss in ecological services over two years.

The in-water coral gardening technique most commonly used elsewhere, actually decreases the amount of ecological services and functions when used in Hawaii.