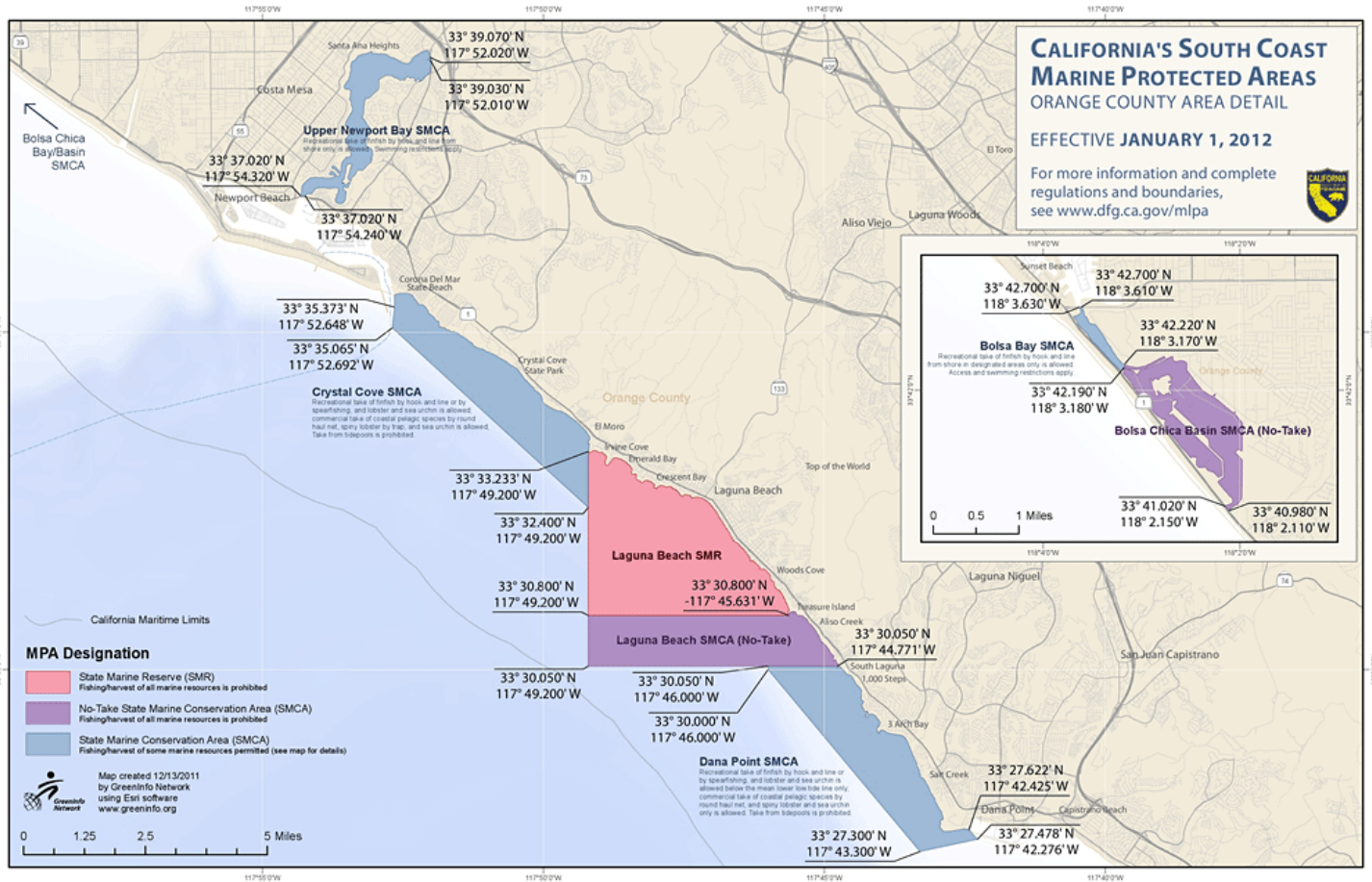




# ORANGE COUNTY COASTKEEPER®

## Orange County MPAs Watch 1<sup>st</sup> Quarterly Report 2018



## 1<sup>st</sup> Quarter, 2018 Results by Marine Protected Area

| MPA               | Total Activities | Total Onshore | Total Offshore | Onshore Consumptive | Onshore Non-consumptive | Offshore Consumptive | Offshore Non-consumptive | Violation | Total Surveys |
|-------------------|------------------|---------------|----------------|---------------------|-------------------------|----------------------|--------------------------|-----------|---------------|
| Upper Newport Bay | 84               | 25            | 59             | 8                   | 17                      | 0                    | 59                       | 0         | 14            |
| Crystal Cove      | 1170             | 1023          | 147            | 4                   | 1019                    | 8                    | 139                      | 0         | 9             |
| Laguna Beach      | 2128             | 1933          | 195            | 0                   | 1933                    | 0                    | 195                      | 0         | 58            |
| Dana Point        | 421              | 333           | 88             | 2                   | 331                     | 0                    | 88                       | 0         | 12            |
| <b>Total</b>      | <b>3803</b>      | <b>3314</b>   | <b>489</b>     | <b>14</b>           | <b>3300</b>             | <b>8</b>             | <b>481</b>               | <b>0</b>  | <b>93</b>     |

The Orange County Marine Protected Area (OCMPA) Watch Program enlists volunteers, community groups and local government to monitor human activity in the Laguna Beach State Marine Reserve (SMR) and Crystal Cove, Dana Point, Laguna Beach, and Upper Newport Bay State Marine Conservation Areas (SMCAs). MPA Watch is a statewide program with the Orange County component run by Orange County Coastkeeper (OCCK). The goal of MPA watch is to provide information to enhance management and performance of Marine Protected Areas. MPA Watch should be viewed as the first part of a three-step process of monitoring, education, and enforcement to evaluate MPA effectiveness in the management of coastal and marine habitats and resources.

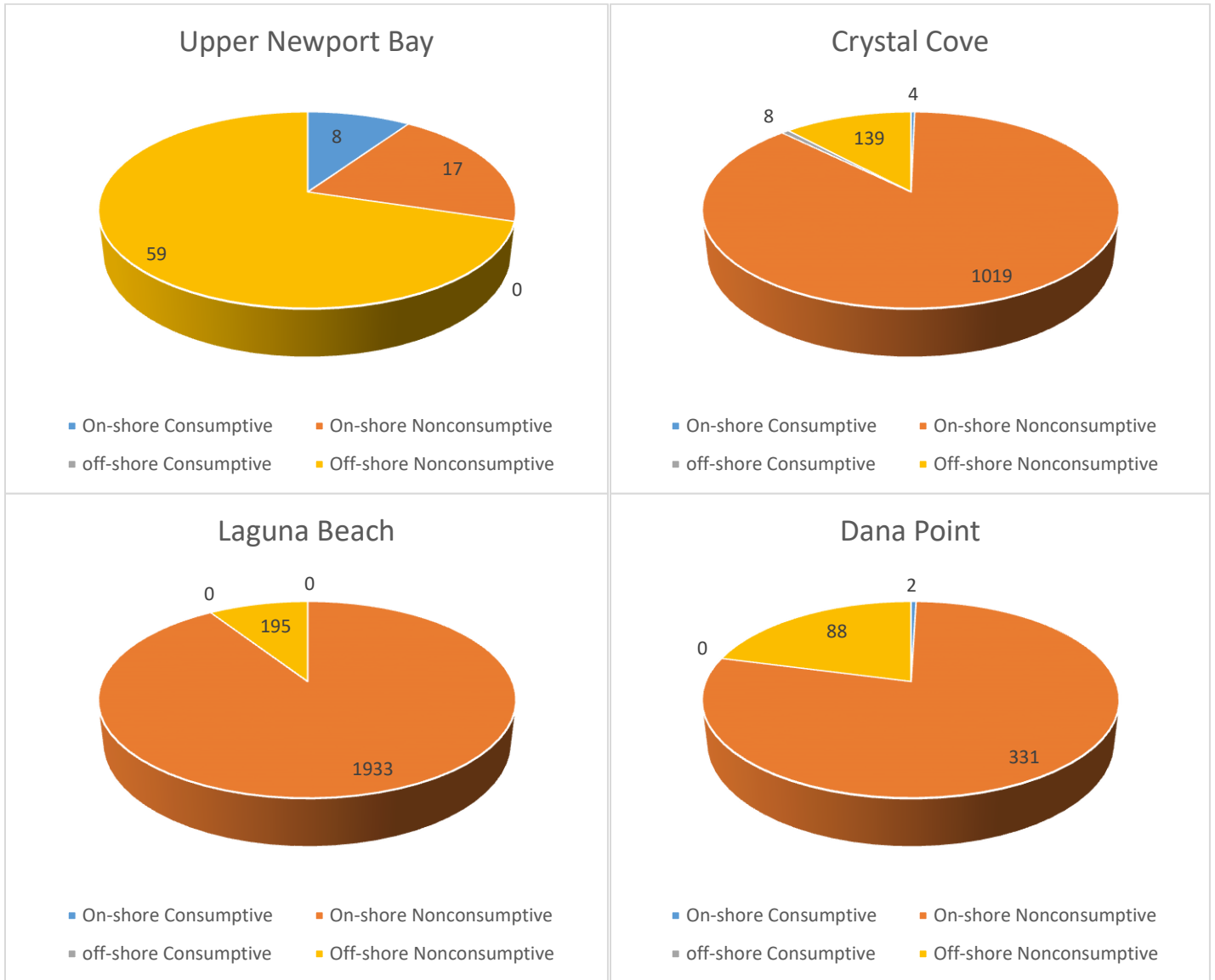
Surveys are conducted at twenty-six locations in five Marine Protected Areas: Crystal Cove SMCA (Big Corona, Little Corona and Reef Point), Upper Newport Bay SMCA (North Star Beach, Castaways and Rocky Point), Laguna Beach SMR (Crescent, Shaws, Fisherman's Cove, Heisler, Main, Bluebird, Woods, Moss Point, Victoria, Montage), Laguna Beach SMCA (Aliso Beach, West Beach, Victoria, Cress, Emerald and Table Rock) and Dana Point SMCA (Totuava, Thousand Steps, Salt Creek, Dana Point and Strands). We do not monitor the Bolsa Bay and Bolsa Basin SMCAs due to a lack of human activity there.

We defined a large number of activities that our volunteers would be most likely to observe during their surveys including: beach recreation, wildlife viewing, snorkeling, and paddle boarding, and, fishing. Each activity falls under one of four broad categories: On-shore, Off-shore, Consumptive, and Non-consumptive.

**On-shore vs. Off-shore Distinction:** On-shore includes any activities that are within the MPA boundaries of the mean high tide line. This, for the purposes of this project, includes sandy beaches and rock areas up to the nearest bluff or man-made structure. Off-shore includes the area within the offshore MPA boundaries as defined in the Fish and Game code and all activities that occur in this area.

**Consumptive vs. Non-consumptive:** Consumptive activities include recreational and commercial take of marine species both on and offshore. Non-consumptive activities include kayaking, surfing, scuba-diving, wildlife viewing, and beach-visiting.

# Number of activities divided by four Orange County MPAs



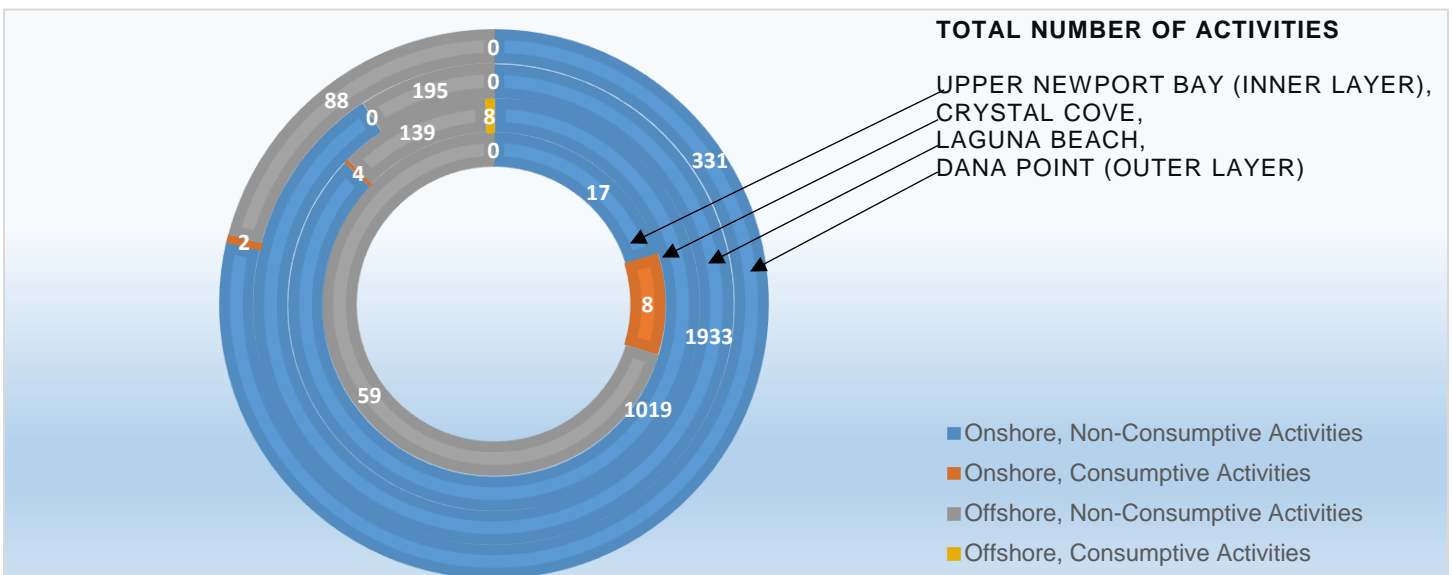
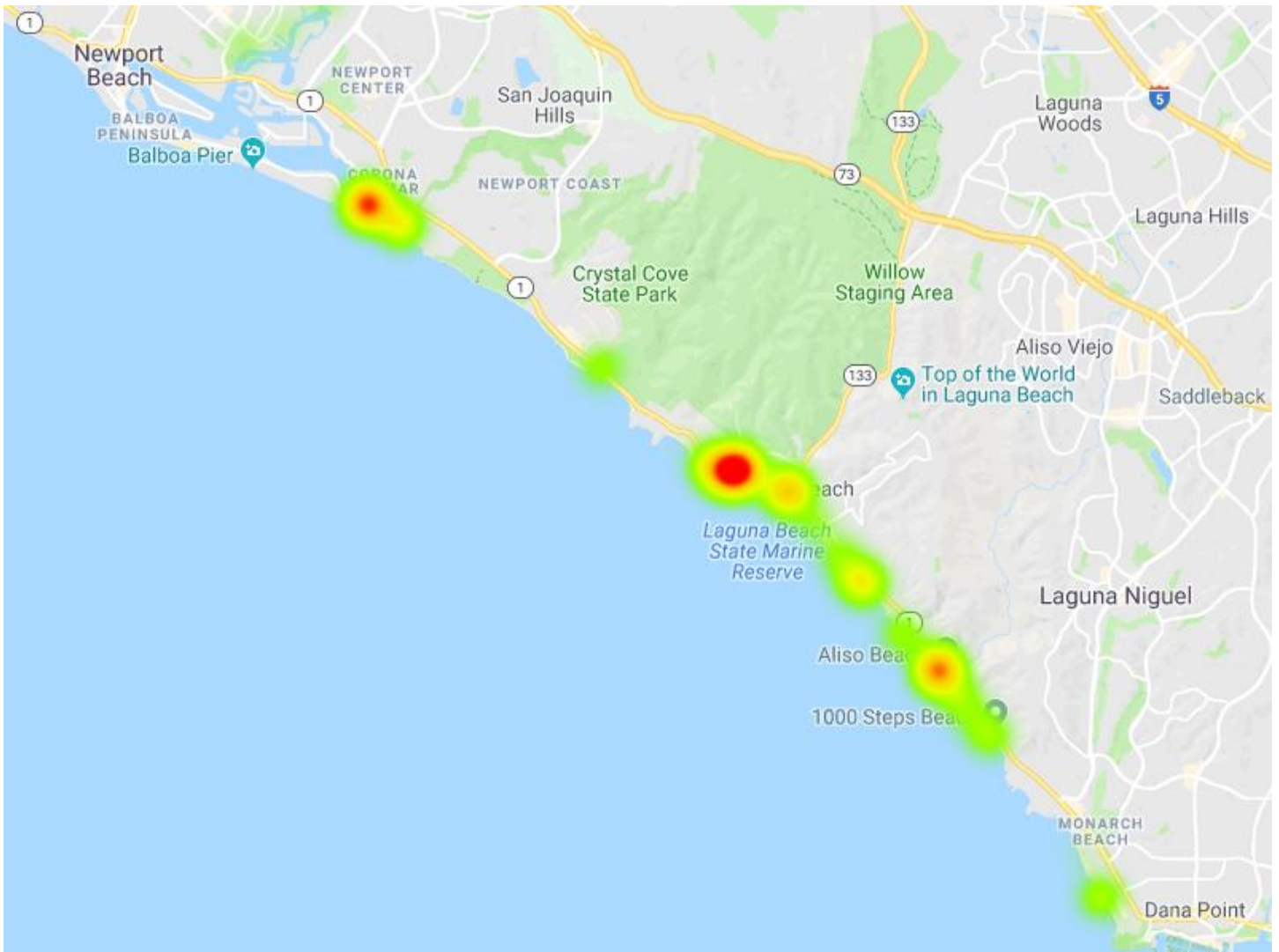
The Crystal Cove and Dana Point SMCAs does not allow take from tide pools.

The Upper Newport Bay SMCA allows fishing from shore using hook and line only.

The Laguna Beach SMR and SMCA does not allow take of any marine resources.

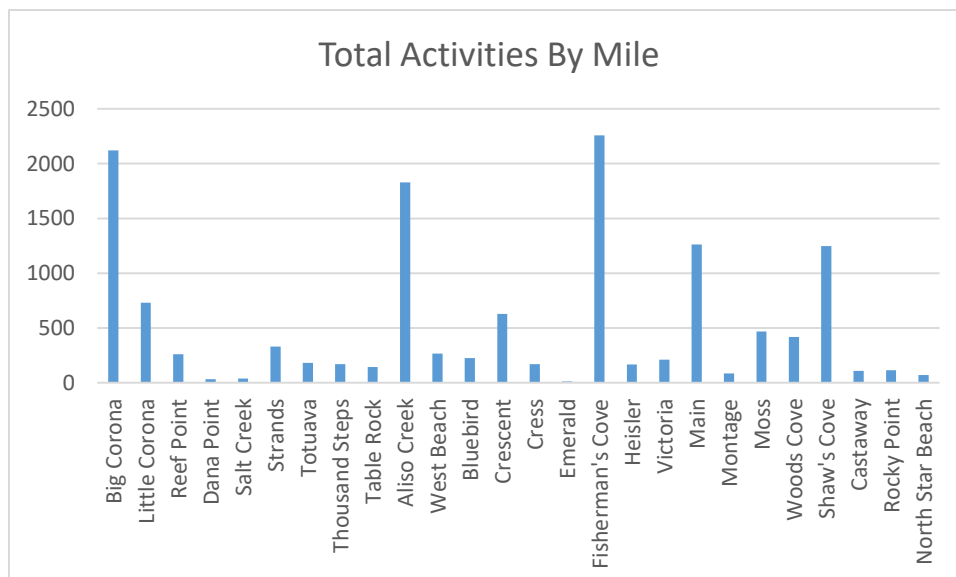
During this period (2018-1<sup>st</sup> Quarter) there was no violations in any of the MPAs regions.

# 1<sup>st</sup> Quarter 2018 MPAs Total Activities Map

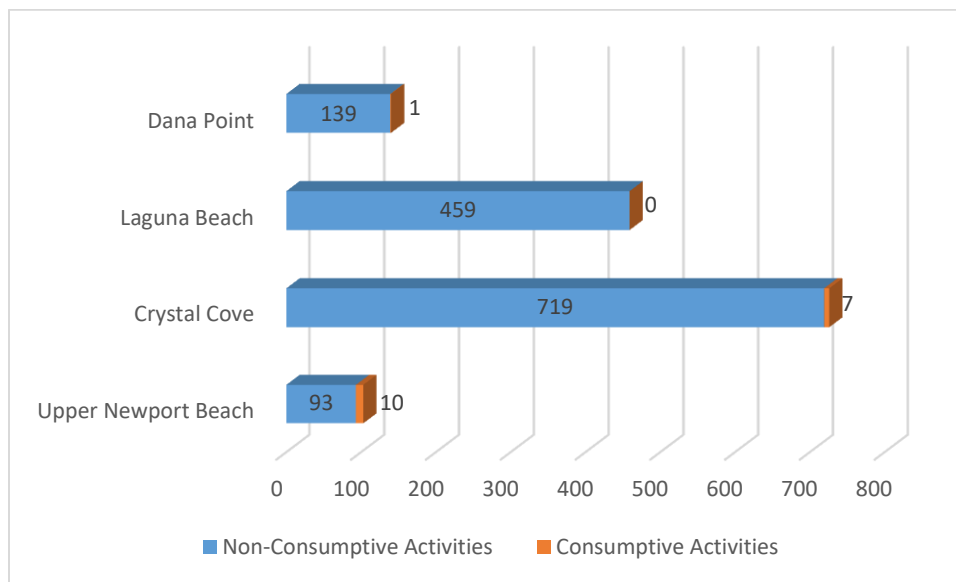


# 1<sup>st</sup> Quarter 2018 Orange County MPAs Activities by Mile

| MPA              | Surveys | Activities | Non-consumptive | Consumptive | Violations |
|------------------|---------|------------|-----------------|-------------|------------|
| Big Corona       | 3       | 721        | 774             | 5           | 0          |
| Little Corona    | 4       | 183        | 178             | 5           | 0          |
| Reef Point       | 2       | 266        | 264             | 2           | 0          |
| Dana Point       | 4       | 20         | 20              | 0           | 0          |
| Salt Creek       | 1       | 40         | 40              | 0           | 0          |
| Strands          | 4       | 261        | 259             | 2           | 0          |
| Thousand Steps   | 2       | 62         | 62              | 0           | 0          |
| Totuvava         | 1       | 38         | 38              | 0           | 0          |
| Table Rock       | 2       | 16         | 16              | 0           | 0          |
| Aliso Creek      | 9       | 457        | 457             | 0           | 0          |
| West Beach       | 3       | 88         | 88              | 0           | 0          |
| Bluebird         | 4       | 95         | 95              | 0           | 0          |
| Crescent         | 4       | 201        | 201             | 0           | 0          |
| Fisherman's Cove | 7       | 158        | 158             | 0           | 0          |
| Heisler          | 2       | 70         | 70              | 0           | 0          |
| Main             | 4       | 442        | 442             | 0           | 0          |
| Montage          | 1       | 47         | 47              | 0           | 0          |
| Moss             | 3       | 28         | 28              | 0           | 0          |
| Woods Cove       | 3       | 46         | 46              | 0           | 0          |
| Shaw's Cove      | 9       | 287        | 287             | 0           | 0          |
| Castaway         | 11      | 57         | 49              | 8           | 0          |
| Rocky Point      | 1       | 15         | 15              | 0           | 0          |
| North Star Beach | 2       | 12         | 12              | 0           | 0          |



# 1<sup>st</sup> Quarter (2018) Total Number of OC MPAs Activities per Mile



| MPA                 | Total Area | Total Surveys | Total Activities | Consumptive Activities | Non-Consumptive Activities | On-shore Activities | Off-shore Activities |
|---------------------|------------|---------------|------------------|------------------------|----------------------------|---------------------|----------------------|
| Upper Newport Beach | 0.82       | 14            | 103              | 10                     | 93                         | 31                  | 72                   |
| Crystal Cove        | 1.61       | 9             | 726              | 7                      | 719                        | 635                 | 91                   |
| Laguna Beach        | 4.64       | 58            | 459              | 0                      | 459                        | 417                 | 42                   |
| Dana Point          | 3.02       | 12            | 139              | 1                      | 139                        | 110                 | 29                   |

The volunteers observed the behavior of 3803 people in Orange County MPAs between January and March 2018. A majority of observations – 87 percent —were of onshore recreational activities such as swimming, sunbathing, running and wildlife viewing. Offshore activities such as surfing, diving, snorkeling and boating made up 13 percent of those surveyed.