

2019 Winter Window Survey for Snowy Plovers on U.S. Pacific Coast with 2012-2019 Results for Comparison. Note: blanks indicate no survey was conducted.

| REGION                  | SITE                                     | OWNER                   | 2012      | 2013      | 2014      | 2015      | 2016      | 2017      | 2018      | 2019      | 2019 Date | Primary Observer(s)       |
|-------------------------|------------------------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------------------|
| <b>Grav's Harbor</b>    | Copalis Spit                             | State Parks             | 0         | 0         | 0         | 0         |           | 0         | 0         | 0         | 24-Jan    | C. Sundstrom              |
|                         | Conner Creek                             | State Parks             | 0         | 1         | 0         | 0         | 0         | 0         | 0         | 0         | 24-Jan    | C. Sundstrom              |
|                         | Damon Point                              | WDNR                    | 0         | 0         | 0         | 0         |           | 0         | 0         | 0         | 24-Jan    | C. Sundstrom, W. Michaels |
|                         | Oyhut Spit                               | WDNR                    |           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 28-Jan    | C. Sundstrom              |
|                         | Ocean Shores to Ocean City               |                         |           |           |           |           |           | 4         | 10        | 0         | 24-Jan    | C. Sundstrom              |
| <b>County Total</b>     |                                          |                         | <b>0</b>  | <b>1</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>4</b>  | <b>10</b> | <b>0</b>  |           |                           |
| <b>Pacific</b>          | Midway Beach                             | Private, State Parks    | 22        | 24        | 22        | 22        | 31        | 22        | 28        | 58        | 29-Jan    | C. Sundstrom              |
|                         | Graveyard Spit                           | Shoalwater Indian Tribe |           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 25-Jan    | C. Sundstrom              |
|                         | Leadbetter Point NWR                     | USFWS, State Parks      | 12        | 4         | 45        |           | 28        | 34        | 3         | 15        | 29-Jan    | W. Ritchie                |
|                         | South Long Beach                         | Private                 |           |           | 0         |           | 10        | 6         | 0         | 7         | 28-Jan    | W. Ritchie                |
|                         | Benson Beach                             | State Parks             |           |           | 0         |           | 0         | 0         | 0         | 0         | 30-Jan    | W. Ritchie                |
| <b>County Total</b>     | <b>County Total</b>                      |                         | <b>34</b> | <b>28</b> | <b>67</b> | <b>22</b> | <b>69</b> | <b>62</b> | <b>31</b> | <b>80</b> |           |                           |
| <b>Washington Total</b> |                                          |                         | <b>34</b> | <b>29</b> | <b>67</b> | <b>22</b> | <b>69</b> | <b>66</b> | <b>41</b> | <b>80</b> |           |                           |
| <b>Clatsop</b>          | S Jetty Columbia River (Ft. Stevens SP)  | ACOE, OPRD              | 0         | 0         | 0         | 0         | 0         |           | 10        | 19        | 25-Jan    | D. Osis                   |
|                         | DeLaura Beach                            | OPRD                    |           |           |           |           |           |           |           |           |           |                           |
|                         | Camp Rilea                               | DOD                     |           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 28-Jan    | J. Mach                   |
|                         | Sunset Beach                             | OPRD                    |           |           |           |           |           |           |           | 0         | 29-Jan    | V. Loverti                |
|                         | Del Rio Beach                            | OPRD                    |           |           |           |           |           |           |           | 0         | 29-Jan    | V. Loverti                |
|                         | Necanicum Spit                           | OPRD                    | 0         | 0         | 0         | 0         | 0         |           | 0         | 0         | 1-Feb     | J. Everett                |
|                         | Gearhart Beach                           | OPRD                    |           |           |           |           |           |           |           | 0         | 1-Feb     | J. Everett                |
|                         | Columbia R-Necanicum R.                  | OPRD                    |           |           |           |           |           |           |           |           |           |                           |
| <b>County Total</b>     |                                          |                         | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>10</b> | <b>19</b> |           |                           |
| <b>Tillamook</b>        | Nehalem Spit                             | OPRD                    |           | 0         | 0         | 0         | 10        |           | 0         | 17        | 30-Jan    | D. Leal                   |
|                         | Bayocean Spit                            | ACOE                    | 0         | 0         | 0         | 0         | 3         | 0         | 0         | 0         | 29-Jan    | E. Gaines                 |
|                         | Netarts Spit                             | OPRD                    |           | 0         | 0         | 0         |           |           |           | 0         | 30-Jan    | C. Lebo                   |
|                         | Sand Lake Spit (S)                       | USFS                    | 0         | 0         | 0         | 0         |           |           | 15        | 14        | 27-Jan    | C. Lebo                   |
|                         | Nestucca Spit                            | OPRD                    | 0         | 0         | 0         | 0         |           |           | 0         | 0         | 27-Jan    | C. Lebo                   |
|                         | Winema Beach                             | Private                 |           |           |           |           | 1         |           |           |           |           |                           |
|                         | Neskowin Beach                           | Private                 |           |           |           |           |           |           |           |           |           |                           |
| <b>County Total</b>     |                                          |                         | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>14</b> | <b>0</b>  | <b>15</b> | <b>31</b> |           |                           |
| <b>Lincoln</b>          | South Beach, Newport                     | OPRD                    |           |           | 0         | 4         | 7         |           | 17        | 23        | 25-Jan    | B. Fowler                 |
|                         | Salishan Spit (Siletz River)             | OPRD, private           |           |           |           |           |           |           | 2         | 0         | 25-Jan    | C. Bruce                  |
|                         | Seal Rock - N Spit Alsea Bay             | OPRD, private           |           |           |           |           |           |           |           |           |           |                           |
|                         | S. Spit Alsea Bay - Big Creek            |                         |           |           |           |           |           |           |           | 0         | 25-Jan    | R. Lowe                   |
|                         | Salmon River Spit                        | OPRD                    |           |           |           |           |           |           |           | 0         | 25-Jan    | C. Bruce                  |
|                         | Bayshore Spit                            | OPRD                    |           |           |           |           |           | 4         | 0         | 36        | 22-Jan    | J. Kirchner               |
| <b>County Total</b>     |                                          |                         | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>4</b>  | <b>7</b>  | <b>4</b>  | <b>19</b> | <b>59</b> |           |                           |
| <b>Lane</b>             | Baker Beach to Sutton Creek              | USFS                    | 6         | 18        | 12        | 13        |           |           | 40        | 27        | 31-Jan    | D. Lauten, K. Castelein   |
|                         | Sutton Creek to Siuslaw River N Jetty    | USFS                    | 0         | 0         | 0         | 0         |           |           | 0         | 0         | 31-Jan    | D. Lauten, K. Castelein   |
|                         | Siuslaw River S Jetty to Siltcoos Breach | USFS                    | 50        | 16        | 0         |           |           |           |           | 0         | 28-Jan    | C. Burns                  |
|                         | Siltcoos River Spits N & S               | USFS                    | 1         | 15        | 47        | 6         |           |           | 30        | 8         | 30-Jan    | D. Lauten, K. Castelein   |
|                         | Siltcoos Parking Lot to S. Jetty Lot #1  |                         |           |           |           |           |           |           |           |           |           |                           |
| <b>County Total</b>     | <b>County Total</b>                      |                         | <b>57</b> | <b>49</b> | <b>59</b> | <b>19</b> | <b>0</b>  | <b>0</b>  | <b>70</b> | <b>35</b> |           |                           |
| <b>Douglas</b>          | Siltcoos-Tahkenitch (Dunes Overlook)     | USFS                    | 34        | 11        | 30        | 7         | 3         | 0         | 9         | 4         | 30-Jan    | D. Lauten, K. Castelein   |
|                         | Tahkenitch Creek N                       | USFS                    |           | 27        | 0         | 19        | 47        | 65        | 50        | 38        | 30-Jan    | D. Lauten, K. Castelein   |

| REGION              | SITE                                     | OWNER                     | 2012       | 2013       | 2014       | 2015       | 2016       | 2017       | 2018       | 2019       | 2019 Date      | Primary Observer(s)                                  |
|---------------------|------------------------------------------|---------------------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|------------------------------------------------------|
|                     | Tahkenitch Spits                         | USFS                      | 0          |            |            |            |            |            | 54         |            |                |                                                      |
|                     | Tahkenitch Spits - Threemile Cr          | USFS, DSL                 |            |            |            |            |            |            |            |            |                |                                                      |
|                     | Tahkenitch Creek to Umpqua River N Jetty | USFS                      |            |            | 0          | 0          |            |            | 1          | 5          | 30-Jan         | C. Burns                                             |
|                     | Umpqua River S Jetty to Tenmile Spit     | USFS                      |            | 21         | 0          |            |            |            |            | 0          | 29-Jan         | D. Lauten, K. Castelein                              |
|                     | Threemile Spit - Umpqua River            |                           |            |            |            |            |            |            |            |            |                |                                                      |
| <b>County Total</b> |                                          |                           | <b>34</b>  | <b>59</b>  | <b>30</b>  | <b>26</b>  | <b>50</b>  | <b>65</b>  | <b>114</b> | <b>47</b>  |                |                                                      |
|                     |                                          |                           |            |            |            |            |            |            |            |            |                |                                                      |
| <b>Coos</b>         | Tenmile Spits                            | USFS                      | 39         | 43         | 55         | 70         | 70         | 64         | 54         | 48         | 29-Jan         | D. Lauten, K. Castelein                              |
|                     | Tenmile Spit - Horsfall Beach            | USFS                      |            |            |            |            |            |            |            | 0          | 30-Jan         | C. Burns                                             |
|                     | Horsfall Beach - N Jetty Coos Bay        | USFS, County, DSL         |            |            |            |            |            |            |            |            |                |                                                      |
|                     | Coos Bay N Spit                          | BLM, ACOE                 | 25         | 23         | 37         | 28         | 85         | 91         | 66         | 47         | 29-Jan         | D. Lauten, K. Castelein                              |
|                     | Whiskey Run to Coquille River            | OPRD                      | 0          | 2          | 0          | 0          | 0          | 0          | 4          | 0          | 31-Jan         | D. Rocco                                             |
|                     | Bandon SP (China Creek) to New River     | OPRD, Private, BLM        | 25         | 4          | 50         | 0          | 14         | 17         |            | 73         | 28-Jan         | D. Lauten, K. Castelein                              |
| <b>County Total</b> |                                          |                           | <b>89</b>  | <b>72</b>  | <b>142</b> | <b>98</b>  | <b>169</b> | <b>172</b> | <b>124</b> | <b>168</b> |                |                                                      |
|                     |                                          |                           |            |            |            |            |            |            |            |            |                |                                                      |
| <b>Curry</b>        | New River to Floras Lake                 | BLM, Private, County      | 19         | 40         | 1          | 60         | 53         | 6          | 12         | 0          | 28-Jan         | D. Lauten, K. Castelein                              |
|                     | Pistol R. Spit                           | OPRD                      |            |            |            |            |            |            |            |            |                |                                                      |
|                     | Sixes River Mouth to Cape Blanco         | BLM, OPRD                 |            |            |            |            |            |            |            |            |                |                                                      |
|                     | Blacklock Point to Sixes River           | BLM, OPRD                 | 0          | 0          | 0          |            |            |            | 0          | 0          | 1-Feb          | J. Metzler                                           |
|                     | Elk River Spit                           | Private                   | 0          | 0          | 0          | 0          | 0          | 5          | 0          | 0          | 31-Jan         | M. Vander Heyden                                     |
|                     | Euchre Creek to Greggs Creek             | OPRD, Private             | 0          | 0          | 0          | 0          |            | 0          | 0          |            |                |                                                      |
|                     | Otter Point to Rogue River               | Various                   |            |            | 0          | 0          |            |            |            |            |                |                                                      |
|                     | Myers Creek to Pistol River              | OPRD, Private             | 0          | 0          | 0          | 0          |            |            |            |            |                |                                                      |
|                     | New River (Beach and HRA)                |                           |            |            |            |            |            | 14         |            |            |                |                                                      |
|                     | Blacklock Point to Cape Blanco           |                           |            |            |            |            |            |            |            |            |                |                                                      |
|                     | Crissy Field to Pelican State Beach      |                           |            |            |            |            |            | 0          | 0          | 0          | 27-Jan         | G. Maschmeyer                                        |
|                     | Euchre Creek to Ophir Wayside            |                           |            |            |            |            |            | 0          |            |            |                |                                                      |
|                     | Floras Lake to Clay Island               |                           |            |            |            |            |            | 0          |            |            |                |                                                      |
|                     | New River Spit                           |                           |            |            |            |            |            | 29         |            |            |                |                                                      |
|                     | Cape Blanco Access to Elk River          |                           |            |            |            |            |            |            |            | 0          | 30-Jan         | M. Vander Heyden                                     |
| <b>County Total</b> |                                          |                           | <b>19</b>  | <b>40</b>  | <b>1</b>   | <b>60</b>  | <b>53</b>  | <b>54</b>  | <b>12</b>  | <b>0</b>   |                |                                                      |
|                     |                                          |                           |            |            |            |            |            |            |            |            |                |                                                      |
| <b>Oregon Total</b> |                                          |                           | <b>199</b> | <b>220</b> | <b>232</b> | <b>207</b> | <b>293</b> | <b>295</b> | <b>364</b> | <b>359</b> |                |                                                      |
|                     |                                          |                           |            |            |            |            |            |            |            |            |                |                                                      |
| <b>Total Unit 1</b> |                                          |                           | <b>233</b> | <b>249</b> | <b>299</b> | <b>229</b> | <b>362</b> | <b>361</b> | <b>405</b> | <b>439</b> |                |                                                      |
|                     |                                          |                           |            |            |            |            |            |            |            |            |                |                                                      |
| <b>Del Norte</b>    | Smith River                              | Private, CDPR             | 0          | 0          |            | 0          |            |            |            |            |                |                                                      |
|                     | Lake Earl/Talawa                         | CDFG, CDPR                | 0          | 0          | 0          | 0          | 2          | 0          | 11         | 16         | 28-Jan         | Tony Kurz, Chris Collier                             |
|                     | Crescent Beach                           | Crescent City             | 0          | 0          | 0          |            | 0          | 0          | 0          | 0          | 28-Jan         | Susie Tharratt, Katie Siedel                         |
| <b>County Total</b> |                                          |                           | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>0</b>   | <b>2</b>   | <b>0</b>   | <b>11</b>  | <b>16</b>  |                |                                                      |
|                     |                                          |                           |            |            |            |            |            |            |            |            |                |                                                      |
| <b>Humboldt</b>     | South Gold Bluffs Beach                  | USNPS, CDPR               | 0          | 4          | 0          | 0          | 0          | 0          | 0          | 6          | 15-Jan         | Tony Kurz                                            |
|                     | North Gold Bluffs Beach                  | USNPS, CDPR               | 4          | 0          | 4          | 10         | 10         | 10         | 0          | 0          | 15-Jan         | Tony Kurz                                            |
|                     | Freshwater Lagoon                        | USNPS <sup>3</sup> , CDPR | -          |            | 0          | 0          | 0          | 0          | 0          | 0          | 29-Jan         | Kyle Max                                             |
|                     | Stone Lagoon                             | CDPR                      | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 18-Jan         | Tony Kurz                                            |
|                     | Dry Lagoon                               | CDPR                      | 0          | 0          | 0          | 0          | 0          | 2          | 0          | 0          | 18-Jan         | Tony Kurz                                            |
|                     | Big Lagoon                               | CDPR                      | 3          | 7          | 5          | 6          | 14         | 17         | 11         | 17         | 18-Jan         | Tony Kurz                                            |
|                     | Moonstone Beach                          | County                    |            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 28-Jan         | Greg Schmidt                                         |
|                     | Little River, Clam Beach North           | County, CDPR, Private     | 33         | 53         | 53         | 83         | 106        | 105        | 66         | 30         | 28-Jan         | David Orluck, Katelyn Raby                           |
|                     | Clam Beach South                         | County                    | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 28-Jan         | Katelyn Raby                                         |
|                     | Lanphere to Mad River                    | County, Private           | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 13         | 28-Jan, 29-Jan | Shannon Brinkman, Laurel Goldsmith, Elizabeth Feucht |
|                     | Gun Club to Lanphere                     | BLM/USFWS <sup>4</sup>    | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 29-Jan         | Shannon Brinkman, Laurel Goldsmith                   |
|                     | Power Pole to Gun Club                   | BLM, Private              | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 30-Jan         | David Anthon                                         |
|                     | North Spit                               | BLM                       | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 30-Jan         | Jesse Irwin                                          |
|                     | Elk River Spit                           | City of Eureka            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 29-Jan         | Susie Tharratt, Jenny Hutchinson                     |

| REGION                   | SITE                                 | OWNER            | 2012       | 2013       | 2014       | 2015       | 2016       | 2017       | 2018       | 2019       | 2019 Date     | Primary Observer(s)                                       |
|--------------------------|--------------------------------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|-----------------------------------------------------------|
|                          | Eel River Gravel Bars                | County, CA State | 0          |            | 0          |            |            |            |            |            |               |                                                           |
|                          | South Spit                           | BLM              | 1          | 7          | 0          | 0          | 10         | 0          | 8          | 0          | 31-Jan        | Elizabeth Feucht, Katelyn Raby                            |
|                          | Eel River WA, North                  | CDFG             | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 29-Jan        | Elizabeth Feucht                                          |
|                          | Eel River WA, South                  | CDFG             | 0          | 0          | 14         | 0          | 0          | 0          | 0          | 0          | 29-Jan        | Elizabeth Feucht                                          |
|                          | Centerville Beach                    | County, Private  | 0          | 31         | 20         | 35         | 42         | 57         | 46         | 19         | 29-Jan        | Katelyn Raby                                              |
|                          | McNult Gulch                         | Private          |            |            | 13         | 16         | 27         | 12         | 17         | 13         | 30-Jan        | Elizabeth Feucht                                          |
|                          | Mattole River                        | BLM <sup>1</sup> | 0          |            |            | 0          |            | 0          | 0          |            |               |                                                           |
| <b>County Total</b>      |                                      |                  | <b>41</b>  | <b>102</b> | <b>109</b> | <b>150</b> | <b>209</b> | <b>203</b> | <b>148</b> | <b>98</b>  |               |                                                           |
| <b>Mendocino</b>         | MacKerricher SB, 10 Mile             | CDPR             | 53         | 41         | 47         | 70         | 97         | 86         | 68         | 61         | 29-Jan        | Alison Cebula                                             |
|                          | Virgin Creek                         | CDPR             | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 29-Jan        | Becky Bowen                                               |
|                          | Manchester SB, Alder & Brush Creeks. | CDPR             | 10         | 0          | 0          | 9          | 13         | 0          | 0          | 24         | 25-Jan        | Alison Cebula                                             |
|                          | Manchester SB, Brush C. to Garcia R. | CDPR, BLM        | 0          | 7          | 7          | 0          | 0          | 18         | 21         | 0          | 25-Jan        | Alison Cebula                                             |
| <b>County Total</b>      |                                      |                  | <b>63</b>  | <b>48</b>  | <b>54</b>  | <b>79</b>  | <b>110</b> | <b>104</b> | <b>89</b>  | <b>85</b>  |               |                                                           |
| <b>Total Unit 2</b>      |                                      |                  | <b>104</b> | <b>150</b> | <b>163</b> | <b>229</b> | <b>321</b> | <b>307</b> | <b>248</b> | <b>199</b> |               |                                                           |
| <b>San Francisco Bay</b> |                                      |                  |            |            |            |            |            |            |            |            |               |                                                           |
|                          | Ocean Beach                          |                  | 14         | 17         | 29         | 61         | 104        | 40         | 49         | 35         | 30-Jan        | G. Page, L. Stenzel, J. Clarke, G. Addleman, Y. Hagashide |
|                          | Crissey Field                        |                  | 4          | 0          | 0          | 0          | 0          | 8          | 1          | 6          | 30-Jan        | L. Stenzel, J. Clarke, G. Addleman, Y. Hagashide          |
| <b>Alameda</b>           | Baumberg/Eden Landing                | CDFG             | 151        | 209        | 192        | 204        | 125        | 179        | 236        | 177        | 28-Jan        | B. Pearl, A. Kato                                         |
|                          | Coyote Hills                         | USFWS NWR        | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 22         | 30-Jan        | A. Chen                                                   |
|                          | Crown Beach                          | EBRPD            |            |            | 6          | 15         | 26         |            | 34         | 48         | 30-Jan        | D. Riensche                                               |
|                          | Dumbarton                            | USFWS NWR        | 2          | 0          | 0          | 0          | 0          | 17         | 0          | 0          | 28-Jan        | M. Tarjan                                                 |
|                          | Hayward                              | City of Hayward  | 0          |            | 0          | 0          | 0          | 0          | 0          | 21         | 29-Jan, 1-Feb | B. Pearl; D. Riensche; C. Cardosi, K. Borowski            |
|                          | Warm Springs                         | USFWS NWR        | 29         | 0          | 0          | 123        | 0          | 34         | 28         | 36         | 30-Jan        | A. Chen                                                   |
| <b>Napa</b>              | Napa                                 | CDFG             | 0          | 5          | 0          | 26         | 0          |            |            | 0          | 1-Feb         | K. Taylor                                                 |
| <b>San Mateo</b>         | Ravenswood/West Bay                  | USFWS NWR        | 11         | 23         | 0          | 23         | 21         | 22         | 18         | 0          | 29-Jan        | A. Kato                                                   |
| <b>Santa Clara</b>       | Alviso                               | USFWS NWR        | 37         | 0          | 0          | 0          | 143        | 90         | 0          | 72         | 26-Jan        | M. Mammoser, M. Rogers, R. Jeffers                        |
| <b>Marin</b>             | Hamilton Wetlands                    | SCC              |            |            |            |            | 18         | 0          | 29         | 0          | 26-Jan        | J. Evens                                                  |
|                          | Mountain View                        |                  |            |            |            |            |            |            | 0          |            |               |                                                           |
|                          | Montezuma Wetlands                   |                  |            |            |            |            |            |            | 11         | 4          | 31-Jan        | L. Neuhaus                                                |
| <b>Total Unit 3</b>      |                                      |                  | <b>230</b> | <b>237</b> | <b>198</b> | <b>391</b> | <b>333</b> | <b>342</b> | <b>356</b> | <b>380</b> |               |                                                           |
| <b>Sonoma</b>            | Gualala River Mouth                  | COUNTY           |            |            |            |            |            |            |            | 0          | 1-Feb         | J. Erbes                                                  |
|                          | Russian River Mouth                  |                  |            |            |            |            |            |            |            | 0          | 25-Jan        | J.f Smith                                                 |
|                          | Salmon Creek SB                      | CDPR             | 4          | 10         | 12         | 6          | 5          | 25         | 0          | 33         | 25-Jan        | J. Erbes                                                  |
|                          | Doran County Park                    | COUNTY           | 23         | 0          | 9          | 33         | 33         | 36         | 58         | 32         | 25-Jan        | D. Freid                                                  |
| <b>County Total</b>      |                                      |                  | <b>27</b>  | <b>10</b>  | <b>21</b>  | <b>39</b>  | <b>38</b>  | <b>61</b>  | <b>58</b>  | <b>65</b>  |               |                                                           |
| <b>Marin</b>             | Dillon Beach                         | Private          | 1          | 88         | 60         | 52         | 58         | 76         | 72         | 65         | 28-Jan        | L. Stenzel                                                |
|                          | Kehoe Beach                          | USNPS            | 16         | 32         | 59         | 57         | 74         | 42         | 20         | 8          | 27-Jan        | D. Humple                                                 |
|                          | North Beach                          | USNPS            | 9          | 6          | 0          | 36         | 46         | 41         | 59         | 65         | 27-Jan        | M. Lau                                                    |
|                          | South Beach                          | USNPS            |            | 0          | 0          | 0          | 0          | 0          | 11         | 0          | 27-Jan        | R. DiGaudio                                               |
|                          | Lighthouse Beach                     | USNPS            |            |            | 0          | 0          |            |            |            |            |               |                                                           |
|                          | Drakes Beach                         | USNPS            |            |            |            |            |            |            |            |            |               |                                                           |
|                          | Limantour Spit                       | USNPS            | 72         | 105        | 72         | 94         | 105        | 110        | 104        | 116        | 20-Jan        | M. Lau                                                    |
|                          | Bolinas Lagoon                       | COUNTY           | 15         | 13         | 18         | 32         | 30         | 39         | 27         | 34         | 27-Jan        | G. Page, L. Stenzel                                       |
| <b>County Total</b>      |                                      |                  | <b>113</b> | <b>244</b> | <b>209</b> | <b>271</b> | <b>313</b> | <b>308</b> | <b>293</b> | <b>288</b> |               |                                                           |
| <b>San Francisco</b>     | Ocean Beach                          | COUNTY           | 14         | 17         | 29         | 61         | 104        | 40         | 1          | 35         | 30-Jan        | G. Page, L. Stenzel, J. Clarke, G. Addleman, Y. Hagashide |
|                          | Crissy Field                         | USNPS            | 4          | 0          | 0          | 0          | 0          | 8          | 49         | 6          | 30-Jan        | L. Stenzel, J. Clarke, G. Addleman, Y. Hagashide          |
| <b>County Total</b>      |                                      |                  | <b>18</b>  | <b>17</b>  | <b>29</b>  | <b>61</b>  | <b>104</b> | <b>48</b>  | <b>50</b>  | <b>41</b>  |               |                                                           |
| <b>San Mateo</b>         | Sharp Park Beach                     | City of Pacifica |            |            |            |            |            |            |            | 0          | 29-Jan        | M. Goodale, S. Hagen                                      |

| REGION                 | SITE                                  | OWNER                    | 2012       | 2013       | 2014       | 2015        | 2016        | 2017        | 2018        | 2019        | 2019 Date | Primary Observer(s)                           |
|------------------------|---------------------------------------|--------------------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------------------------------------------|
|                        | Rockaway Beach                        | City of Pacifica         |            | 0          | 0          | 0           |             |             | 0           | 0           | 29-Jan    | M. Goodale, S. Hagen                          |
|                        | Pacifica SB                           | CDPR                     | 11         | 7          | 0          | 17          | 21          | 15          | 25          | 14          | 29-Jan    | M. Goodale, S. Hagen                          |
|                        | Pillar Point                          |                          | 1          | 0          | 0          | 0           | 0           |             | 0           | 0           | 29-Jan    | N.Lyons                                       |
|                        | Half Moon Bay State Beach             | CDPR                     | 28         | 37         | 39         | 48          | 37          | 89          | 86          | 59          | 29-Jan    | A. Boutell, E. Yayoshi, A. DeMare, D. Johnson |
|                        | Tunitas Creek                         | Private                  | 25         | 23         | 25         | 22          | NS          |             | 37          | 4           | 29-Jan    | L. Vallero, H. Ormslaw                        |
|                        | San Gregorio                          | CDPR                     | 3          | 0          | 0          | 0           | 0           |             | 0           | 0           | 29-Jan    | C. Fahy, L. Lee, R. Willmann                  |
|                        | Pomponio                              | CDPR                     | 0          | 0          | 0          | 0           | 0           |             | 0           | 2           | 29-Jan    | C. Fahy, L. Lee, R. Willmann                  |
|                        | Pescadero SB                          | CDPR                     | 5          | 9          | 14         | 19          | 37          | 29          | 31          | 10          | 29-Jan    | C. Fahy, L. Lee, R. Willmann                  |
|                        | Pigeon Point                          | CDPR, Private            | 8          | 10         | 0          | 7           | 0           | 0           | 6           | 4           | 29-Jan    | S. Mencher, K. Lannin Liang                   |
|                        | Gazos Creek                           | CDPR                     | 17         | 26         | 21         | 39          | 35          | 62          | 58          | 72          | 29-Jan    | L. Flint, K. Rogind                           |
|                        | Ano Nuevo                             | CDPR                     | 0          | 0          | 0          | 0           |             |             | 0           | 0           | 29-Jan    | J. Kerbavaz                                   |
| <b>County Total</b>    |                                       |                          | <b>98</b>  | <b>112</b> | <b>99</b>  | <b>152</b>  | <b>130</b>  | <b>195</b>  | <b>243</b>  | <b>165</b>  |           |                                               |
| <b>Santa Cruz</b>      | Waddell SB                            | CDPR, Private            | 0          | 0          | 0          | 0           | 0           | 0           | 0           | 0           | 29-Jan    | S. Mencher, K. Lannin Liang                   |
|                        | Scott Creek Beach                     | County                   | 56         | 26         | 67         | 22          | 46          | 19          | 0           | 0           | 29-Jan    | J. Teitler, L. Bidinian                       |
|                        | Laguna Creek                          | CDPR                     | 25         | 34         | 0          | 27          | 0           | 0           | 0           | 0           | 29-Jan    | S. Thornhill                                  |
|                        | Wilder SB                             | CDPR                     | 4          | 0          | 0          | 0           | 0           | 0           | 0           | 0           | 29-Jan    | S. Martin, S. Thornbill                       |
|                        | Seabright SB                          | CDPR                     | 73         | 83         | 88         | 95          | 80          | 84          | 121         | 94          | 28-Jan    | C. Gibble                                     |
|                        | Twin Lakes State Beach                | CDPR                     |            |            |            |             |             |             |             | 0           | 28-Jan    | J. Brocklebank                                |
|                        | Rio Del Mar                           | Private                  |            |            |            |             | 27          |             | 0           | 0           | 28-Jan    | J. Parkin                                     |
|                        | Sunset SB                             | CDPR                     | 32         | 41         | 0          | 37          | 0           | 0           | 56          | 0           | 28-Jan    | S. Degen, J.-L. Excofier                      |
|                        | Pajaro Beach and Spit                 | CDPR                     | 76         | 27         | 124        | 70          | 8           | 69          | 86          | 0           | 28-Jan    | K. Neuman                                     |
| <b>County Total</b>    |                                       |                          | <b>266</b> | <b>211</b> | <b>279</b> | <b>251</b>  | <b>161</b>  | <b>172</b>  | <b>263</b>  | <b>94</b>   |           |                                               |
| <b>Monterey</b>        | Zmudowski SB                          | CDPR                     | 8          | 90         | 17         | 106         | 260         | 0           | 0           | 132         | 28-Jan    | B. Barbaree                                   |
|                        | Moss Landing SB                       | CDPR                     | 29         | 25         | 21         | 44          | 2           | 72          | 0           | 0           | 28-Jan    | D. Glasco                                     |
|                        | Moss Landing Salt Ponds               | CDFG                     | 0          | 0          | 0          | 0           |             | 110         | 0           | 0           | 28-Jan    | R. Horn                                       |
|                        | Salinas SB                            | CDPR                     | 34         | 14         | 6          | 42          | 20          | 9           | 25          | 59          | 29-Jan    | B. Barbaree                                   |
|                        | Salinas River NWR                     | USFWS                    | 22         | 30         | 0          | 22          | 85          | 2           | 116         | 21          | 29-Jan    | K. Neuman, C. Caris                           |
|                        | Martin/CemexAreas                     | Private                  | 8          | 7          | 0          | 37          | 14          | 4           | 0           | 45          | 29-Jan    | K. Neuman, E. Haile                           |
|                        | Marina SB (Reservation Rd & Fort Ord) | CDPR                     | 24         | 0          | 57         | 16          | 0           | 0           | 11          | 14          | 28-Jan    | E. Haile, A. Palkovic                         |
|                        | Sand City                             | Private                  | 0          | 0          | 0          | 113         | 34          | 75          | 73          | 49          | 28-Jan    | D. Dixon, F. White-Henry                      |
|                        | Monterey SB                           | CDPR                     | 25         | 12         | 120        | 6           | 45          | 26          | 49          | 0           | 28-Jan    | C. Chabre                                     |
|                        | Carmel River SB                       | CDPR                     | 28         | 31         | 8          | 7           | 87          | 42          | 19          | 26          | 28-Jan    | D. Dixon, F. White-Henry                      |
|                        | Asilomar                              | CDPR                     | 0          | 0          | 0          | 0           | 0           | 0           | 0           | 0           | 28-Jan    | D. Dixon                                      |
|                        | Point Sur Beach                       | CDPR                     | 0          | 0          | 0          | 0           | 0           | 0           | 0           | 0           | 29-Jan    | A. Palkovic                                   |
|                        | Little Sur Beach                      | Private                  | 0          | 0          | 27         | 0           | 6           | 0           | 13          | 8           | 25-Jan    | D. Glasco, A. Palkovic                        |
| <b>County Total</b>    |                                       |                          | <b>178</b> | <b>209</b> | <b>256</b> | <b>393</b>  | <b>553</b>  | <b>340</b>  | <b>306</b>  | <b>354</b>  |           |                                               |
| <b>Total Unit 4</b>    |                                       |                          | <b>700</b> | <b>803</b> | <b>893</b> | <b>1167</b> | <b>1299</b> | <b>1124</b> | <b>1213</b> | <b>1007</b> |           |                                               |
| <b>San Luis Obispo</b> | San Carpoforo Creek                   | USFS <sup>6</sup> , CDPR | 16         | 1          | 26         | 0           | 0           | 14          | 0           | 36          | 29-Jan    | J. Sayers                                     |
|                        | Point Sierra Nevada                   | CDPR                     | 0          | 0          | 0          | 0           | 0           | 0           | 0           | 0           | 29-Jan    | J. Sayers                                     |
|                        | Arroya de La Cruz                     | CDPR                     | 2          | 0          | 0          | 0           | 0           | 0           | 0           | 0           | 29-Jan    | J. Sayers                                     |
|                        | Sydney's Lagoon                       | CDPR                     | 0          | 0          | 0          | 0           | 0           | 0           | 0           | 0           | 29-Jan    | J. Sayers                                     |
|                        | Arroyo Laguna Creek                   | CDPR                     | 27         | 0          | 0          | 0           | 0           | 6           | 0           | 0           | 29-Jan    | J. Sayers                                     |
|                        | Little Pico Creek                     | CDPR                     | 28         | 0          | 0          | 0           | 0           | 0           | 0           | 0           | 29-Jan    | J. Sayers                                     |
|                        | San Simeon State Beach                | CDPR                     | 46         | 33         | 93         | 144         | 193         | 0           | 54          | 88          | 29-Jan    | J. Sayers                                     |
|                        | Santa Rosa State Beach                | CDPR                     | 0          | 0          | 0          | 0           | 0           | 0           | 4           | 0           | 29-Jan    | J. Sayers                                     |
|                        | Estero Bluffs State Beach             | CDPR                     | 28         | 33         | 0          | 35          | 0           | 0           | 16          | 0           | 29-Jan    | R. Orr                                        |
|                        | Toro Creek                            | Private                  | 0          | 0          | 0          | 0           | 0           | 0           | 0           | 0           | 29-Jan    | R. Orr                                        |
|                        | Morro Strand SB                       | CDPR                     | 1          | 81         | 141        | 106         | 5           | 55          | 56          | 2           | 29-Jan    | R. Orr                                        |
|                        | Morro Rock City Beach                 | City of Morro Bay        | 0          | 0          | 0          | 0           | 0           | 0           | 0           | 0           | 29-Jan    | R. Orr                                        |
|                        | Morro Bay Sandspit: City sector       | City of Morro Bay        | 0          | 28         | 0          | 37          | 0           | 1           | 2           | 4           | 29-Jan    | J. Isaacs, S. Ontiveros                       |
|                        | Morro Bay Sandspit: State sector      | CDPR                     | 0          | 50         | 76         | 130         | 123         | 201         | 23          | 3           | 29-Jan    | J. Isaacs, S. Ontiveros                       |

| REGION               | SITE                               | OWNER                | 2012       | 2013       | 2014       | 2015       | 2016       | 2017       | 2018       | 2019       | 2019 Date | Primary Observer(s)               |
|----------------------|------------------------------------|----------------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------------------------------|
|                      | Pismo State Beach                  | CDPR                 | 34         | 0          | 0          | 0          | 7          | 0          | 0          | 0          | 29-Jan    | S. Robinson                       |
|                      | Oceano Dunes SVRA                  | CDPR                 | 118        | 113        | 227        | 219        | 232        | 138        | 112        | 90         | 29-Jan    | D. George, S. Robinson            |
|                      | ODSVRA Oso Flaco Natural Area      | CDPR                 | 32         | 22         | 34         | 19         | 7          | 0          | 22         | 26         | 29-Jan    | J. Iwanicha                       |
|                      | Guadalupe-Nipomo Dunes NWR         | USFWS                | 44         | 39         | 11         | 19         | 1          | 6          | 17         | 8          | 29-Jan    | J. Iwanicha                       |
|                      | Chevron (formerly Unocal) Property | Private              | 26         | 25         | 2          | 33         | 7          | 17         | 15         | 38         | 29-Jan    | K. Paradis                        |
| <b>County Total</b>  |                                    |                      | <b>402</b> | <b>425</b> | <b>610</b> | <b>742</b> | <b>575</b> | <b>438</b> | <b>321</b> | <b>295</b> |           |                                   |
| <b>Santa Barbara</b> | Rancho Guadalupe Dunes Co. Park    | County               | 38         | 48         | 82         | 84         | 101        | 85         | 9          | 51         | 30-Jan    | T. Applegate                      |
|                      | Mussel Rock Beach                  | Private              | 0          | 30         | 73         | 19         | 64         | 3          | 30         | 14         | 30-Jan    | T. Applegate                      |
|                      | Paradise Beach                     | Private              | 0          | 0          | 0          | 0          | 0          |            |            | 0          | 30-Jan    | T. Applegate                      |
|                      | Point Sal SB                       | CDPR                 | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 30-Jan    | J. Howar                          |
|                      | Vandenberg AFB North beaches       | US Air Force         | 114        | 86         | 73         | 61         | 56         | 56         | 37         | 91         | 30-Jan    | L. Hargett, E. Rice               |
|                      | Vandenberg AFB South beaches       | US Air Force         | 82         | 67         | 89         | 120        | 143        | 87         | 80         | 199        | 29-Jan    | L. Hargett, E. Rice               |
|                      | Dangermond Preserve                | TNC                  |            |            |            |            |            |            |            | 20         | 29-Jan    | L. Hargett, E. Rice               |
|                      | Jalama Beach                       | County               | 57         | 81         | 116        | 93         | 97         | 0          | 0          | 42         | 29-Jan    | J. Howar                          |
|                      | Gaviota State Beach                | CDPR                 | 0          | 0          | 0          | 0          | 0          | 1          | 0          | 0          | 29-Jan    | D. Barringer                      |
|                      | Refugio State Beach                | CDPR                 | 0          | 0          | 0          | 0          | 0          | 9          | 17         | 0          | 29-Jan    | D. Barringer                      |
|                      | El Capitan State Beach             | CDPR                 | 0          | 0          | 0          | 0          | 10         | 0          | 0          | 0          | 29-Jan    | D. Barringer                      |
|                      | Hollister                          | Private              |            |            |            |            |            |            |            | 32         | 26-Jan    | D. Barringer                      |
|                      | Haskell's Beach                    | Private              | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 29-Jan    | J. Nielsen                        |
|                      | Ellwood Beach                      | City of Goleta       | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 11         | 29-Jan    | J. Nielsen                        |
|                      | Coal Oil Pt. Reserve               | Univ. of Calif.      | 147        | 134        | 141        | 130        | 62         | 75         | 185        | 132        | 29-Jan    | J. Nielsen                        |
|                      | Isla Vista beach                   | Univ. of Calif.      | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 29-Jan    | J. Nielsen                        |
|                      | Campus Beach                       | Univ. of Calif.      | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 29-Jan    | J. Nielsen                        |
|                      | Goleta Beach                       | County               | 0          | 25         | 0          | 0          | 0          | 0          | 0          | 0          | 29-Jan    | J. Nielsen                        |
|                      | Santa Barbara beaches              | City of S. Barbara   | 60         | 69         | 61         | 45         | 0          | 43         | 19         | 0          | 1-Feb     | L. Chang, J. Gold                 |
|                      | Santa Claus Lane beaches           | Private              | 0          | 38         | 0          | 34         | 0          |            | 49         | 0          | 29-Jan    | K. Fahy                           |
|                      | Carpinteria City Beach             | City of Carpinteria  | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 27-Jan    | M. Ruane                          |
|                      | Carpinteria State Beach            | CDPR                 | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 27-Jan    | M. Ruane                          |
|                      | Santa Cruz Island                  | Nature Conservancy   | 2          | 0          | 0          | 13         | 8          |            | 24         | 22         | 30-Jan    | L. Laughrin                       |
|                      | Santa Rosa Island                  | USNPS                | 203        | 165        | 169        | 186        | 53         | 122        | 152        | 147        | 12-Feb    | D. Mazurkiewicz                   |
|                      | San Miguel Island                  | USNPS                | 7          | 0          | 0          | 6          | 0          | 61         |            | 0          | 4-Feb     | S. Whitaker                       |
| <b>County Total</b>  |                                    |                      | <b>710</b> | <b>743</b> | <b>804</b> | <b>791</b> | <b>594</b> | <b>542</b> | <b>602</b> | <b>761</b> |           |                                   |
| <b>Ventura</b>       | Ventura River Estuary              | City of Ventura      |            | 6          | 3          | 9          | 0          |            |            | 0          | 31-Jan    | K. Regester                       |
|                      | San Buenaventura State Beach       | CDPR                 | 125        | 86         | 54         | 87         | 52         | 65         | 0          | 62         | 29-Jan    | N. Cox, B. Sheridan               |
|                      | McGrath State Beach                | CDPR                 | 46         | 29         | 17         | 19         | 5          | 3          | 34         | 33         | 29-Jan    | N. Cox, B. Sheridan               |
|                      | Mandalay State Beach               | CDPR                 | 31         | 32         | 17         | 21         | 24         | 4          | 22         | 2          | 29-Jan    | N. Cox, B. Sheridan               |
|                      | Hollywood County Beach             | County               | 28         | 47         | 131        | 28         | 20         | 38         | 12         | 34         | 28-Jan    | D. Barringer                      |
|                      | Ormond Beach                       | CACC, City of Oxnard | 57         | 85         | 75         | 69         | 65         | 60         | 56         | 0          | 29-Jan    | Z. Adkins, C. Hartley, J. Suddith |
|                      | Point Mugu NAS                     | US Navy              | 56         | 88         | 56         | 32         | 14         | 42         | 16         | 94         | 29-Jan    | F. Ferrara, M. Ruane              |
|                      | San Nicolas Island                 | US Navy              | 159        | 96         | 70         | 69         | 7          | 24         | 80         | 49         | 30-Jan    | F. Ferrara, et al                 |
| <b>County Total</b>  |                                    |                      | <b>502</b> | <b>469</b> | <b>423</b> | <b>334</b> | <b>187</b> | <b>236</b> | <b>220</b> | <b>274</b> |           |                                   |