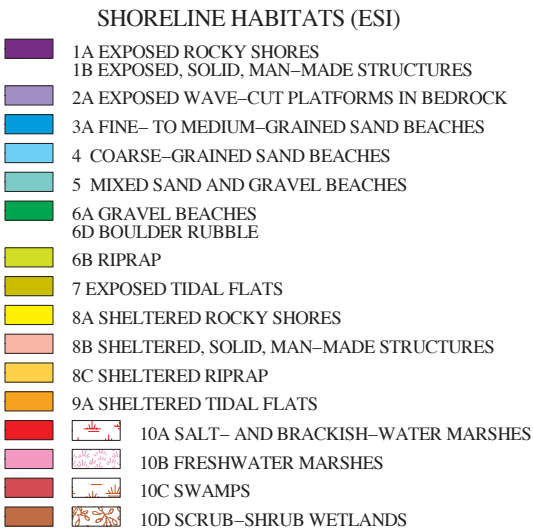
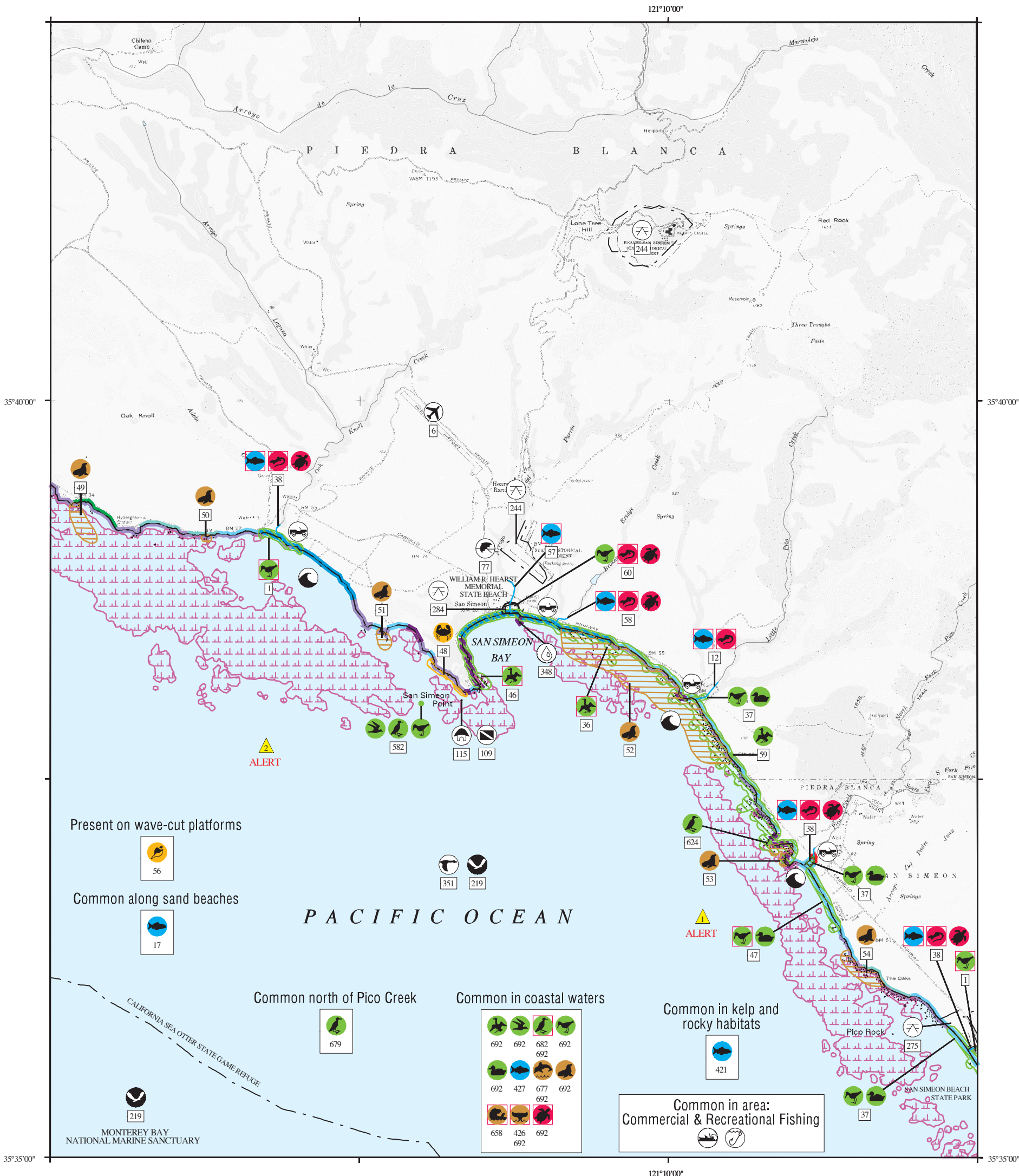
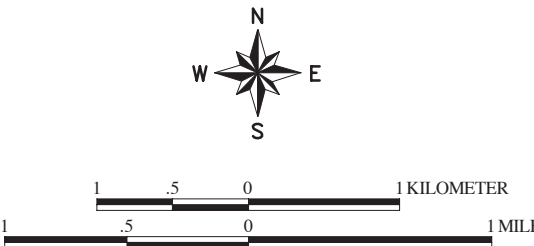


ENVIRONMENTAL SENSITIVITY INDEX MAP



Prepared by: Research Planning, Inc.
Columbia, South Carolina

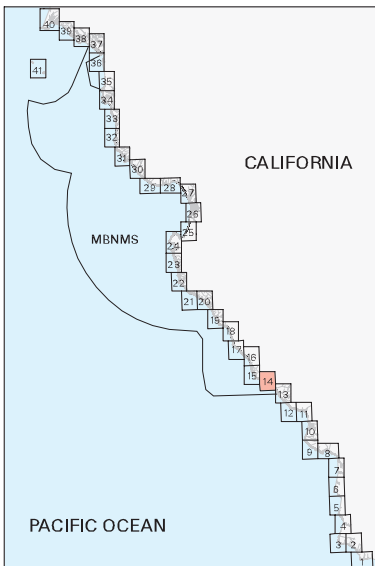


SCALE 1:50000

Not For Navigation

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Monterey Bay National Marine Sanctuary
and
Office of Spill Prevention and Response
California Department of Fish and Game



Central California ESI-14

Central California: ESIMAP 14

BIOLOGICAL RESOURCES:

BIRD:

| RAR# | Species | S F Conc. | J F M A M J J A S O N D | Nesting | Migrating | Molting |
|------|----------------------|-------------------|-------------------------|---------|--------------------|---------|
| 1 | Western snowy plover | T | X X X X X X X X X X X | MAR-SEP | - | - |
| 36 | Brown pelican | E E 5-74 INDIV. | X X X X X X X X X X X | - | JUL-NOV | - |
| 37 | Shorebirds | | X X X X X X X X X X X | - | - | - |
| | Waterfowl | | X X X X X X X X X X X | - | - | - |
| 46 | Brown pelican | E E 24-185 INDIV. | X X X X X X X X X X X | - | JUL-NOV | - |
| 47 | Dabbling ducks | | X X X X X X X X X X | - | SEP-MAR | - |
| | Shorebirds | | X X X X X X X X X X X | - | - | - |
| | Western snowy plover | T | X X X X X X X X X X X | MAR-SEP | - | - |
| 59 | Brandt's cormorant | | X X X X X X X X X X X | FEB-AUG | - | - |
| 60 | Shorebirds | | X X X X X X X X X X X | - | - | - |
| 582 | Black oystercatcher | 1 INDIV. | X X X X X X X X X X X | MAR-SEP | - | - |
| | Pigeon guillemot | 42 INDIV. | X X X X X X X X X X X | FEB-AUG | - | - |
| | Western gull | 10 INDIV. | X X X X X X X X X X X | MAR-AUG | - | - |
| 624 | Pigeon guillemot | 22 INDIV. | X X X X X X X X X X X | FEB-AUG | - | - |
| 679 | Sooty shearwater | HIGH | X X X X X X X | - | - | JUN-SEP |
| 682 | Sooty shearwater | MODERATE | X X X X X X X X X X | - | - | APR-OCT |
| 692 | Cassin's auklet | MODERATE | X X X X X X X X X X X | - | - | - |
| | Clark's grebe | MODERATE | X X X X X X X X X X | - | MAR-APR SEP-NOV | - |
| | Common murre | MODERATE | X X X X X X X X X X X | - | - | JUL-SEP |
| | Cormorants | MODERATE | X X X X X X X X X X X | - | - | - |
| | Eared grebe | LOW | X X X X X X X X X X | - | MAR-APR SEP-OCT | - |
| | Gulls | MODERATE | X X X X X X X X X X X | - | - | - |
| | Horned grebe | LOW | X X X X X X X X X X | - | OCT-APR | - |
| | Loons | LOW | X X X X X X X X X X | - | OCT-MAY | - |
| | Marbled murrelet | E T LOW | X X X X X X X X X X X | - | - | - |
| | Pacific loon | MODERATE | X X X X X X X X X X | - | OCT-MAY | - |
| | Pelicans | MODERATE | X X X X X X X X X X | - | JUL-NOV | - |
| | Phalaropes | LOW | X X X X X X X X X X X | - | - | - |
| | Pigeon guillemot | MODERATE | X X X X X X X X X X | - | - | - |
| | Rhinoceros auklet | MODERATE | X X X X X X X X X X X | - | - | - |
| | Shearwaters | MODERATE | X X X X X X X X X X X | - | - | - |
| | Surf scoter | MODERATE | X X X X X X X X X X | - | MAR-APR SEP-DEC | - |
| | Western grebe | MODERATE | X X X X X X X X X X | - | MAR-APR SEP-NOV | - |
| | White-winged scoter | MODERATE | X X X X X X X X X X | - | MAR-APR OCT-NOV | - |

FISH:

| RAR# | Species | S F Conc. | J F M A M J J A S O N D | Spawning | Eggs | Larvae | Juveniles | Adults |
|------|---------------------------|-----------|-------------------------|----------|---------|---------|-----------|---------|
| 12 | Steelhead | T | X X X X X X X X X X X | - | - | - | JUN-OCT | OCT-JUN |
| | Tidewater goby | E | X X X X X X X X X X X | JAN-DEC | - | - | - | JAN-DEC |
| 17 | Barred surfperch | | X X X X X X X X X X X | APR-AUG | - | - | JAN-DEC | MAR-NOV |
| | California grunion | | X X X X X X X | MAR-AUG | MAR-SEP | - | - | MAR-AUG |
| | Striped bass | | X X X X X | - | - | - | MAY-SEP | MAY-SEP |
| | Walleye surfperch | | X X X X X X X X X X X | APR-AUG | - | - | JAN-DEC | JAN-DEC |
| 38 | Steelhead | T | X X X X X X X X X X X | - | - | - | JUN-OCT | OCT-JUN |
| | Tidewater goby | E | X X X X X X X X X X X | JAN-DEC | - | - | - | JAN-DEC |
| 57 | Steelhead | T | X X X X X X X X X X X | NOV-APR | NOV-APR | NOV-JUN | JAN-DEC | NOV-APR |
| | Tidewater goby | E | X X X X X X X X X X X | JAN-DEC | - | - | - | JAN-DEC |
| 58 | Tidewater goby | E | X X X X X X X X X X X | JAN-DEC | - | - | - | JAN-DEC |
| 421 | Black rockfish | | X X X X X X X X X X X | JAN-MAY | - | - | APR-JUL | JAN-DEC |
| | Black-and-yellow rockfish | | X X X X X X X X X X X | MAR-JUN | - | - | MAY-JUL | JAN-DEC |
| | Blue rockfish | | X X X X X X X X X X X | NOV-MAR | - | - | APR-JUL | JAN-DEC |
| | Bocaccio | | X X X X X X X X X X X | - | - | - | JAN-DEC | - |
| | Canary rockfish (orange) | | X X X X X X X X X X X | - | - | - | JAN-DEC | - |
| | China rockfish | | X X X X X X X X X X X | JAN-JUL | - | - | MAY-JUL | JAN-DEC |
| | Copper rockfish | | X X X X X X X X X X X | FEB-APR | - | - | APR-JUL | JAN-DEC |
| | Gopher rockfish | | X X X X X X X X X X X | MAR-JUN | - | - | MAY-JUL | JAN-DEC |
| | Grass rockfish | | X X X X X X X X X X X | JAN-MAR | - | - | MAY-JUL | JAN-DEC |
| | Kelp rockfish | | X X X X X X X X X X X | FEB-APR | - | - | APR-AUG | JAN-DEC |
| | Olive rockfish | | X X X X X X X X X X X | JAN-MAR | - | - | APR-JUL | JAN-DEC |
| | Vermilion rockfish | | X X X X X X X X X X X | SEP-NOV | - | - | FEB-JUL | JAN-DEC |
| | Widow rockfish | | X X X X X X X X X X X | - | - | - | JAN-DEC | - |
| | Yellowtail rockfish | | X X X X X X X X X X X | - | - | - | JAN-DEC | - |
| 427 | California halibut | | X X X X X X X X X X X | FEB-JUN | - | FEB-SEP | JAN-DEC | FEB-NOV |
| | Salmon | | X X X X X X | - | - | - | - | APR-SEP |

INVERTEBRATE:

| RAR# | Species | S F Conc. | J F M A M J J A S O N D | Spawning | Eggs | Larvae | Juveniles | Adults |
|------|---------------|----------------|-------------------------|----------|------|--------|-----------|---------|
| 48 | Invertebrates | HIGH DIVERSITY | X X X X X X X X X X X | - | - | - | JAN-DEC | JAN-DEC |
| 56 | Black abalone | | X X X X X X X X X X X | - | - | - | JAN-DEC | JAN-DEC |

MARINE MAMMAL:

| RAR# | Species | S F Conc. | J F M A M J J A S O N D | Mating | Calving | Pupping | Molting |
|------|------------------------------|-----------------------|-------------------------|---------|---------|--------------------|---------|
| 49 | Harbor seal | 15-71 INDIV. | X X X X X X X X X X X | - | - | MAR-MAY | - |
| 50 | Harbor seal | 39 INDIV. | X X X X X X X X X X X | - | - | MAR-MAY | - |
| 51 | Harbor seal | 54-88 INDIV. | X X X X X X X X X X X | - | - | MAR-MAY | - |
| 52 | Harbor seal | 27-36 INDIV. | X X X X X X X X X X X | - | - | MAR-MAY | - |
| 53 | Harbor seal | 35 INDIV. | X X X X X X X X X X X | - | - | MAR-MAY | - |
| 54 | Harbor seal | 135-158 INDIV. | X X X X X X X X X X X | - | - | MAR-MAY | - |
| 426 | Gray whale | | X X X X X X X X | - | DEC-FEB | - | - |
| 658 | Sea otter | T 522 INDEP / 80 PUPS | X X X X X X X X X X X | - | - | JAN-MAR SEP-NOV | - |
| 677 | Harbor porpoise | MODERATE | X X X X X X X X X X X | JUL-SEP | JUN-AUG | - | - |
| 692 | Blue whale | E MODERATE | X X X X X X X X X X | - | - | - | - |
| | Bottlenose dolphin | MODERATE | X X X X X X X X X X X | - | - | - | - |
| | Dall's porpoise | MODERATE | X X X X X X X X X X X | - | - | - | - |
| | Fin whale | E LOW | X X X X X X X X X X X | - | - | - | - |
| | Humpback whale | E MODERATE | X X X X X X X X X X | - | - | - | - |
| | Killer whale | LOW | X X X X X X X X X X X | - | - | - | - |
| | Long-beaked common dolphin | MODERATE | X X X X X X X X X X X | - | - | - | - |
| | Minke whale | LOW | X X X X X X X X X X X | - | MAR-MAY | - | - |
| | Northern right whale | E LOW | X X X | - | - | - | - |
| | Northern right-whale dolphin | LOW | X X X X X X X X X X X | - | - | - | - |
| | Pacific white-sided dolphin | LOW | X X X X X X X X X X X | - | - | - | - |
| | Risso's dolphin | MODERATE | X X X X X X X X X X X | - | - | - | - |
| | Sea lions | MODERATE | X X X X X X X X X X X | - | - | - | - |
| | Seals | LOW | X X X X X X X X X X X | - | - | - | - |
| | Short-beaked common dolphin | MODERATE | X X X X X X X X X X X | - | - | - | - |
| | Short-finned pilot whale | LOW | X X X X X X X X X X X | - | - | - | - |

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.

Central California: ESIMAP 14 (cont.)

BIOLOGICAL RESOURCES: (cont.)

REPTILE:

| RAR# | Species | S F Conc. | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Hatching | Interesting | Juveniles | Adults |
|------|----------------------------|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---------|----------|-------------|-----------|---------|
| 12 | California red-legged frog | T | | | | | | X | X | X | X | X | | | - | - | - | JUN-OCT | - |
| 38 | California red-legged frog | T | | | | | | X | X | X | X | X | | | - | - | - | JUN-OCT | - |
| | Western pond turtle | | | | | | | X | X | X | X | X | | | - | - | - | JUN-OCT | - |
| 58 | California red-legged frog | T | X | X | X | X | X | X | X | X | X | X | X | X | NOV-APR | - | - | JAN-DEC | JAN-DEC |
| | Western pond turtle | | | | | | | X | X | X | X | X | | | - | - | - | JUN-OCT | - |
| 60 | California red-legged frog | T | X | X | X | X | X | X | X | X | X | X | X | X | NOV-APR | - | - | JAN-DEC | JAN-DEC |
| | Western pond turtle | | | | | | | X | X | X | X | X | | | - | - | - | JUN-OCT | - |
| 692 | Leatherback sea turtle | E LOW | | | | | | X | X | X | X | X | X | | - | - | - | - | MAY-NOV |

HUMAN USE RESOURCES:

ALERT:

| ID# | Description |
|-----|------------------------------------------------------------------------------------------------------|
| 1 | Numerous harbor seal haulouts, breeding March-May. |
| 2 | Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor. |

AIRPORT:

| HUN# | Name | Contact | Phone |
|------|----------------------|---------|-------|
| 6 | HEARST RANCH AIRPORT | | |

BEACH:

| HUN# | Name | Contact | Phone |
|------|----------------------------------------|---------|-------|
| 77 | WILLIAM R. HEARST MEMORIAL STATE BEACH | | |

DIVING:

| HUN# | Name | Contact | Phone |
|------|--------|---------|-------|
| 109 | DIVING | | |

SAMPLING SITE:

| HUN# | Name | Contact | Phone |
|------|--------------|---------------|--------------|
| 115 | PISCO & USGS | STEVE LONHART | 831/647-4222 |

MARINE SANCTUARY:

| HUN# | Name | Contact | Phone |
|------|----------------------------------------|----------------|--------------|
| 219 | MONTEREY BAY NATIONAL MARINE SANCTUARY | SUPERINTENDENT | 831/647-4201 |

PARK:

| HUN# | Name | Contact | Phone |
|------|-------------------------------------|---------------------------------|-------|
| 244 | HEARST SAN SIMEON SHM | CA DEPT OF PARKS AND RECREATION | |
| 275 | SAN SIMEON SP | CA DEPT OF PARKS AND RECREATION | |
| 284 | WILLIAM RANDOLPH HEARST MEMORIAL SB | CA DEPT OF PARKS AND RECREATION | |

WATER INTAKE:

| HUN# | Name | Contact | Phone |
|------|------------------------|---------|-------|
| 348 | SAN SIMEON DESAL PLANT | | |

WILDLIFE REFUGE:

| HUN# | Name | Contact | Phone |
|------|----------------------------------|---------|-------|
| 351 | CALIFORNIA SEA OTTER GAME REFUGE | CDF&G | |