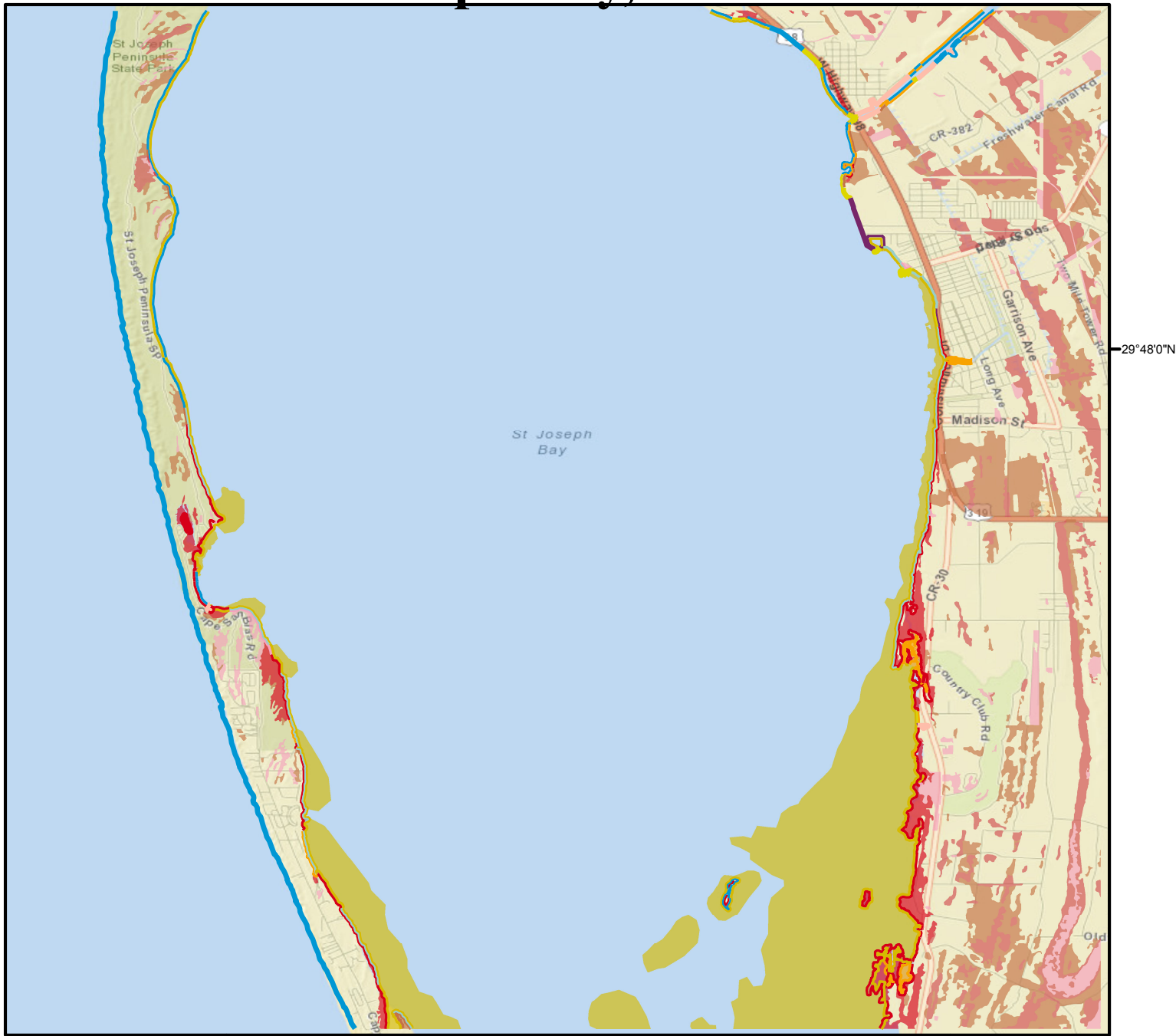


# St Joseph Bay, Florida



85°24'0"W

85°18'0"W

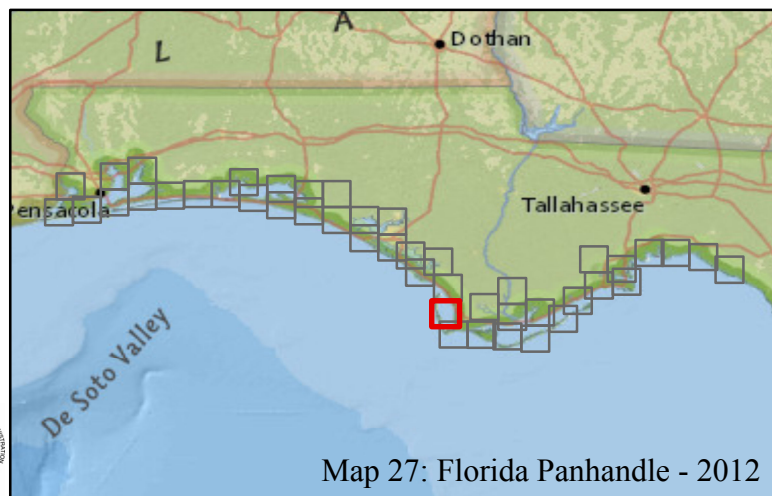
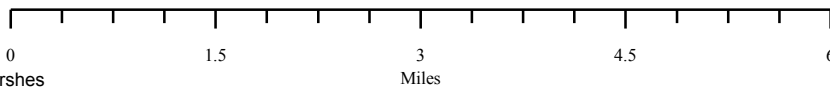
29°48'0"N

## ESI Shoreline Habitats on Map

- 10A Salt- and brackish-water marshes
- 10B Freshwater marshes
- 10C Swamps
- 10D Scrub-shrub wetlands
- 9A Sheltered tidal flats
- 9B Vegetated low banks
- 8B Sheltered, solid man-made structures
- 7 Exposed tidal flats
- 6B Riprap
- 5 Mixed sand and gravel beaches
- 3A Fine- to medium-grained sand beaches
- 3B Scarps and steep slopes in sand








Additional shoreline types are present - see back of map


Content from Florida Panhandle - 2012 ESI Atlas







# St Joseph Bay, Florida

## BIOLOGICAL RESOURCES



| <b>Birds</b>  |                        |          |              |               |   |   |   |   |   |   |   |   |   |         |         |         |         |           |         |
|---|------------------------|----------|--------------|---------------|---|---|---|---|---|---|---|---|---|---------|---------|---------|---------|-----------|---------|
| Subelement  | Species                | S        | F            | Concentration | J | F | M | A | M | J | J | A | S | O       | N       | D       | NESTING | MIGRATING | MOLTING |
|  Diving      | Brown pelican          | C        | -            | -             | X | X | X | X | X | X | X | X | X | X       | X       | X       |         |           |         |
|   | Common loon            |          | -            | -             | X | X | X | X |   |   |   |   |   |         | X       | X       |         |           |         |
|  Gull/Tern   | Black skimmer          | C        | -            | -             |   |   |   |   | X | X | X | X | X |         |         |         |         |           |         |
|   | Laughing gull          |          | -            | -             | X | X | X | X | X | X | X | X | X | X       | X       | X       |         |           |         |
|   | Least tern             | T        | -            | -             |   |   |   |   | X | X | X | X |   |         |         |         | Apr-Aug |           |         |
|   | Ring-billed gull       |          | -            | -             | X | X | X | X | X | X | X | X | X | X       | X       | X       |         |           |         |
|  Pelagic     | Northern gannet        |          | -            | -             | X | X | X | X |   |   |   |   |   |         |         | X       |         |           |         |
|  Raptor      | Bald eagle             |          | -            | -             | X | X | X | X | X | X | X | X | X | X       | X       | Nov-Jun |         |           |         |
|   | Golden eagle           |          | 1-3-BIRDS    | -             | X | X |   |   |   |   |   |   |   |         |         | X       |         |           |         |
|   | Merlin                 |          | -            | -             |   |   | X | X | X |   |   |   |   |         |         |         |         |           |         |
|   | Osprey                 | C        | -            | -             | X | X | X | X | X | X | X | X | X | X       | X       |         |         |           |         |
|   | Peregrine falcon       |          | -            | -             | X | X | X | X |   |   |   |   | X | X       | X       | X       |         |           |         |
|   | Raptors                |          | 1000S        | -             |   |   |   |   |   |   | X | X | X | X       |         |         |         |           |         |
|  Shorebird   | Black-bellied plover   |          | -            | -             | X | X | X | X | X | X | X | X | X | X       | X       |         |         |           |         |
|   | Dunlin                 |          | -            | -             | X | X | X | X |   | X | X | X | X | X       |         |         |         |           |         |
|   | Greater yellowlegs     |          | -            | -             | X | X | X | X |   | X | X | X | X | X       |         |         |         |           |         |
|   | Killdeer               |          | -            | -             | X | X | X | X | X | X | X | X | X | X       | X       |         |         |           |         |
|   | Least sandpiper        |          | -            | -             | X | X | X | X |   | X | X | X | X | X       |         |         |         |           |         |
|   | Piping plover          | T T      | -            | -             | X | X | X | X |   | X | X | X | X | X       |         |         |         |           |         |
|   | Red knot               |          | 8-BIRDS      | -             | X | X | X | X | X | X | X | X | X | X       | X       |         |         |           |         |
|   | Ruddy turnstone        |          | -            | -             | X | X | X | X |   | X | X | X | X | X       |         |         |         |           |         |
|   | Sanderling             |          | -            | -             | X | X | X | X |   | X | X | X | X | X       |         |         |         |           |         |
|   | Semipalmated plover    |          | -            | -             | X | X | X | X |   | X | X | X | X | X       |         |         |         |           |         |
|   | Short-billed dowitcher |          | -            | -             | X | X | X | X | X | X | X | X | X | X       |         |         |         |           |         |
|   | Snowy plover           | T        | -            | -             | X | X | X | X | X | X | X | X | X | X       | Mar-Aug |         |         |           |         |
|   | Willet                 |          | -            | -             | X | X | X |   |   |   | X | X | X | X       |         |         |         |           |         |
| Wilson's plover   |                        | 2-ADULTS | -            | X             | X | X | X | X | X | X | X | X | X | Apr-Jul |         |         |         |           |         |
|  Wading    | Great egret            |          | 10           | -             | X | X | X | X | X | X | X | X | X | X       | X       | Jan-Jun |         |           |         |
|   | Snowy egret            | C        | 1            | -             | X | X | X | X | X | X | X | X | X | X       | X       | Mar-Aug |         |           |         |
|   | Tricolored heron       | C        | 1            | -             | X | X | X | X | X | X | X | X | X | X       | Feb-Jul |         |         |           |         |
|  Waterfowl | Redhead                |          | 36000-131000 | -             | X | X | X |   |   |   |   |   |   | X       | X       |         |         |           |         |

| <b>Fish</b>  |               |     |         |               |   |   |   |   |   |   |   |   |   |   |   |   |          |      |        |          |         |
|--|---------------|-----|---------|---------------|---|---|---|---|---|---|---|---|---|---|---|---|----------|------|--------|----------|---------|
| Subelement   | Species       | S   | F       | Concentration | J | F | M | A | M | J | J | A | S | O | N | D | SPAWNING | EGGS | LARVAE | JUVENILE | ADULT   |
|  Diadromous | Alabama shad  | C   | PRESENT | -             | X | X | X | X | X | X | X | X | X | X | X |   |          |      |        | Jan-Dec  | Jan-Dec |
|  | Gulf sturgeon | T T | RARE    | -             | X | X | X |   |   |   |   |   |   | X | X | X |          |      |        | Oct-Apr  | Oct-Apr |

## St Joseph Bay, Florida (continued)



| Fish (continued)   |                          |   |                 |                 |   |   |   |   |   |   |   |   |   |   |   |   |          |          |          |          |          |          |
|--|--------------------------|---|-----------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|----------|----------|----------|----------|----------|----------|
| Subelement   | Species                  | S | F               | Concentration   | J | F | M | A | M | J | J | A | S | O | N | D | SPAWNING | EGGS     | LARVAE   | JUVENILE | ADULT    |          |
|  Estuarine Nursery    | Atlantic croaker         |   |                 | ABUNDANT        | X | X | X | X | X | X | X | X | X | X | X | X | Sep-Apr  | Sep-Apr  | Sep-Apr  | Jan-Dec  | Jan-Dec  |          |
|  | Atlantic sharpnose shark |   |                 | ABUNDANT        |   |   |   | X | X | X | X | X | X | X |   |   | May-Jul  |          | Apr-Oct  | Apr-Oct  | Apr-Oct  |          |
|  | Bay anchovy              |   |                 | ABUNDANT        | X | X | X | X | X | X | X | X | X | X | X | X | X        | Mar-Nov  | Mar-Nov  | Mar-Nov  | Jan-Dec  | Jan-Dec  |
|  | Black drum               |   |                 | COMMON          | X | X | X | X | X | X | X | X | X | X | X | X | X        | Nov-Apr  | Nov-Apr  | Dec-May  | Jan-Dec  | Jan-Dec  |
|  | Black sea bass           |   |                 | COMMON          | X | X | X | X | X | X | X | X | X | X | X | X | X        | Dec-Apr  | Dec-Apr  | Dec-May  | Jan-Dec  | Jan-Dec  |
|  | Bluefish                 |   |                 | ABUNDANT        |   |   | X | X | X | X | X | X | X | X | X | X | X        | Sep-Jan* | Sep-Jan* | Sep-Jan* | Jan-Dec  | Jan-Dec  |
|  | Bonnethead shark         |   |                 | PRESENT         | X | X | X | X | X | X | X | X | X | X | X | X | X        | Oct-Nov  |          | Aug-Sep  | Oct-Jan* | Jul-May  |
|  | Bull shark               |   |                 | COMMON          | X | X | X | X | X | X | X | X | X | X | X | X | X        | Jun-Jul  |          | Apr-Jun  | Jan-Dec  | Jan-Dec  |
|  | Gray snapper             |   |                 | COMMON          |   |   |   |   |   |   | X | X | X | X | X | X | X        | Jun-Nov  | Jun-Nov  | Jun-Dec  | Jan-Dec  | Jan-Dec  |
|  | Grunts                   |   |                 | RARE            |   |   |   |   |   |   | X | X | X | X |   |   |          |          |          |          | Jun-Sep  |          |
|  | Gulf flounder            |   |                 | COMMON          | X | X | X | X | X | X | X | X | X | X | X | X | X        | Nov-Feb  | Nov-Feb  | Nov-Mar  | Jan-Dec  | Jan-Dec  |
|  | Gulf menhaden            |   |                 | HIGHLY-ABUNDANT | X | X | X | X | X | X | X | X | X | X | X | X | X        | Oct-Mar  | Oct-Mar  | Oct-May  | Jan-Dec  | Jan-Dec  |
|  | Hardhead catfish         |   |                 | COMMON          | X | X | X | X | X | X | X | X | X | X | X | X | X        | May-Aug  | May-Aug  | May-Sep  | Jan-Dec  | Jan-Dec  |
|  | Kingfishes               |   |                 | ABUNDANT        | X | X | X | X | X | X | X | X | X | X | X | X | X        |          |          |          |          |          |
|  | Ladyfish                 |   |                 | ABUNDANT        | X | X | X | X | X | X | X | X | X | X | X | X | X        | Jan-Nov  | Jan-Nov  | Jan-Dec  | Jan-Dec  | Jan-Dec  |
|  | Lane snapper             |   |                 | HIGHLY-ABUNDANT |   |   |   |   |   | X | X | X | X | X | X |   |          | Sep-Jan* | Sep-Jan* | Sep-Jan* | Sep-Jan* | Sep-Jan* |
|  | Mojarras                 |   |                 | COMMON          |   |   |   |   |   | X | X | X | X | X |   |   |          | Apr-Nov  | Apr-Nov  | Apr-Nov  |          | Apr-Nov  |
|  | Pigfish                  |   |                 | COMMON          |   | X | X | X | X | X | X | X | X | X | X |   |          | Jan-May  | Jan-May  | Jan-May  |          | Jan-May  |
|  | Pinfish                  |   |                 | HIGHLY-ABUNDANT | X | X | X | X | X | X | X | X | X | X | X | X | X        | Oct-Apr  | Oct-Apr  | Oct-Apr  | Jan-Dec  | Jan-Dec  |
|  | Porgy spp.               |   |                 | PRESENT         | X | X | X | X | X | X | X | X | X | X | X | X | X        | Jan-Aug  | Jan-Aug  | Jan-Sep  | Jan-Dec  | Apr-Dec  |
|  | Red drum                 |   |                 | COMMON          | X | X | X | X | X | X | X | X | X | X | X | X | X        | Sep-Dec  | Sep-Dec  | Sep-Jan  | Jan-Dec  | Jan-Dec  |
|  | Sand seatrout            |   |                 | ABUNDANT        | X | X | X | X | X | X | X | X | X | X | X | X | X        | Mar-Sep  | Mar-Sep  | Mar-Oct  | Jan-Dec  | Jan-Dec  |
|  | Sheepshead               |   |                 | COMMON          | X | X | X | X | X | X | X | X | X | X | X | X | X        | Feb-Apr  | Feb-Apr  | Feb-Jul  | Jan-Dec  | Jan-Dec  |
|  | Silver mullet            |   |                 | ABUNDANT        | X | X | X | X | X | X | X | X | X | X | X | X | X        |          |          |          | May-Oct  | Jan-Dec  |
|  | Southern flounder        |   |                 | COMMON          | X | X | X | X | X | X | X | X | X | X | X | X | X        | Nov-Jan  | Nov-Jan  | Nov-Mar  | Jan-Dec  | Nov-Sep  |
|  | Spot                     |   |                 | ABUNDANT        | X | X | X | X | X | X | X | X | X | X | X | X | X        | Oct-Apr  | Oct-Apr  | Oct-Apr  | Jan-Dec  | Jan-Dec  |
|  | Spotted seatrout         |   |                 | PRESENT         | X | X | X | X | X | X | X | X | X | X | X | X | X        | Apr-Dec  | Apr-Sep  | Apr-Oct  | Jan-Dec  | Jan-Dec  |
| Striped mullet   |                          |   | HIGHLY-ABUNDANT | X               | X | X | X | X | X | X | X | X | X | X | X | X | Oct-Mar  | Oct-Mar  | Oct-May  | Jan-Dec  | Jan-Dec  |          |
| Tarpon   |                          |   | COMMON          |                 |   |   |   |   | X | X | X | X |   |   |   |   |          |          |          | May-Sep  | Jun-Sep  |          |
|  Estuarine Resident | Code goby                |   |                 | ABUNDANT        | X | X | X | X | X | X | X | X | X | X | X | X | Apr-Sep  | Apr-Sep  | Apr-Sep  | Jan-Dec  | Jan-Dec  |          |
|  | Gulf killifish           |   |                 | COMMON          | X | X | X | X | X | X | X | X | X | X | X | X | X        | Mar-Sep  | Mar-Sep  | Mar-Oct  | May-Feb  | Jan-Dec  |
|  | Sheepshead minnow        |   |                 | ABUNDANT        | X | X | X | X | X | X | X | X | X | X | X | X | X        | Mar-Sep  | Mar-Sep  | Apr-Oct  | May-Mar  | Jan-Dec  |
|  | Silver perch             |   |                 | ABUNDANT        | X | X | X | X | X | X | X | X | X | X | X | X | X        | Mar-Jul  | Mar-Jul  | Mar-Aug  | Jan-Dec  | Jan-Dec  |
|  | Silversides              |   |                 | ABUNDANT        | X | X | X | X | X | X | X | X | X | X | X | X | X        | Mar-Sep  | Mar-Sep  | Mar-Oct  | Jan-Dec  | Jan-Dec  |
|  | Smalltooth sawfish       | E |                 | PRESENT         | X | X | X | X | X | X | X | X | X | X | X | X | X        |          |          |          | Jan-Dec  | Jan-Dec  |
|  Fish               | Vermillion snapper       |   |                 | COMMON          |   |   |   | X | X | X | X | X | X | X |   |   | Apr-Nov  | Apr-Nov  | Apr-Nov  | Apr-Nov  | Apr-Nov  |          |
|  Freshwater         | Bluegill                 |   |                 | COMMON          | X | X | X | X | X | X | X | X | X | X | X | X | Apr-Sep  | Apr-Sep  | Apr-Sep  | Jan-Dec  | Jan-Dec  |          |
|  | Largemouth bass          |   |                 | COMMON          | X | X | X | X | X | X | X | X | X | X | X | X | X        | Mar-May  | Mar-May  | Mar-May  | Jan-Dec  | Jan-Dec  |



## St Joseph Bay, Florida (continued)




| Fish (continued)   |                      |   |          |                 |   |   |   |   |   |   |   |   |   | SPAWNING | EGGS    | LARVAE   | JUVENILE | ADULT    |         |         |         |
|--|----------------------|---|----------|-----------------|---|---|---|---|---|---|---|---|---|----------|---------|----------|----------|----------|---------|---------|---------|
| Subelement   | Species              | S | F        | Concentration   | J | F | M | A | M | J | J | A | S | O        | N       | D        |          |          |         |         |         |
|  Marine Benthic   | Atlantic spadefish   |   |          | PRESENT         | X | X | X | X | X | X | X | X | X | X        | X       | X        | May-Sep  | May-Sep  | May-Oct | Jan-Dec | Jan-Dec |
|  | Cusk eels            |   |          | PRESENT         | X | X | X | X | X | X | X | X | X | X        | X       | X        | Jan-Dec  | Jan-Dec  | Jan-Dec | Jan-Dec | Jan-Dec |
|  | Flatfish             |   |          | PRESENT         | X | X | X | X | X | X | X | X | X | X        | X       | X        | Jan-Dec  | Jan-Dec  | Jan-Dec | Jan-Dec | Jan-Dec |
|  | Florida pompano      |   |          | PRESENT         |   |   |   | X | X | X | X | X | X |          |         |          | Mar-Oct  | Mar-Oct  | Mar-Sep | Mar-Nov | Apr-Sep |
|  | Gag grouper          |   |          | ABUNDANT        | X | X |   |   | X | X | X | X | X | X        | X       | X        |          |          |         | May-Oct | Oct-Feb |
|  | Goatfishes           |   |          | PRESENT         | X | X | X | X | X | X | X | X | X | X        | X       | X        | Mar-Jun  | Mar-Jun  | Mar-Jul | Jan-Dec | Jan-Dec |
|  | Gray triggerfish     |   |          | ABUNDANT        |   |   |   | X | X | X | X | X | X | X        | X       | X        | May-Sep  | May-Sep  | May-Oct | Apr-Nov | Apr-Nov |
|  | Little tunny         |   |          | HIGHLY-ABUNDANT | X | X | X | X | X | X | X | X | X | X        | X       | X        |          |          |         |         |         |
|  | Lizardfishes         |   |          | COMMON          | X | X | X | X | X | X | X | X | X | X        | X       | X        | Apr-Aug  | Apr-Aug  | Apr-Oct | Jan-Dec | Jan-Dec |
|  | Permit               |   |          | PRESENT         |   |   |   | X | X | X | X | X | X | X        | X       | X        | Apr-Jun  | Apr-Jun  | Mar-Oct | Aug-Nov | Mar-Nov |
|  | Rays                 |   |          | ABUNDANT        | X | X | X | X | X | X | X | X | X | X        | X       | X        | Jan-Dec  | Jan-Dec  |         | Jan-Dec | Jan-Dec |
|  | Red snapper          |   |          | COMMON          | X |   |   | X | X | X | X | X | X | X        | X       | X        | May-Oct  | May-Oct  | May-Nov | Apr-Jan | Apr-Jan |
|  | Rock sea bass        |   |          | PRESENT         | X | X | X | X | X | X | X | X | X | X        | X       | X        | Mar-Jun  | Mar-Jun  | Mar-Jul | Jan-Dec | Jan-Dec |
|  | Scamp grouper        |   |          | ABUNDANT        |   |   |   | X | X | X | X | X | X | X        | X       | X        | Mar-May  | Mar-May  | Mar-Jun | Mar-Nov | Apr-Nov |
|  | Searobins            |   |          | COMMON          | X | X | X | X | X | X | X | X | X | X        | X       | X        | Jan-Dec  | Jan-Dec  | Jan-Dec | Jan-Dec | Jan-Dec |
|  | Skates               |   |          | ABUNDANT        | X | X | X | X | X | X | X | X | X | X        | X       | X        | Jan-Dec  | Jan-Dec  |         | Jan-Dec | Jan-Dec |
|  | Tonguefish           |   |          | PRESENT         | X | X | X | X | X | X | X | X | X | X        | X       | X        | Jan-Dec  | Jan-Dec  | Jan-Dec | Jan-Dec | Jan-Dec |
|  Marine Pelagic | Amberjacks           |   |          | ABUNDANT        |   |   |   | X | X | X | X | X | X | X        | X       | Apr-Nov  | Apr-Nov  | Apr-Dec  | Apr-Dec | Apr-Dec |         |
|  | Atlantic tripletail  |   |          | PRESENT         | X | X | X | X | X | X | X | X | X | X        | X       | May-Sep  | May-Sep  | May-Oct  | Jan-Dec | Jan-Dec |         |
|  | Ballyhoo             |   |          | PRESENT         |   |   |   |   | X | X | X |   |   |          |         |          |          |          |         |         |         |
|  | Bigeye scad          |   |          | HIGHLY-ABUNDANT | X | X | X | X | X | X | X | X | X | X        | X       | Jun-Nov  | Jun-Nov  | Jun-Dec  | Jan-Dec | Jan-Dec |         |
|  | Blackfin tuna        |   |          | PRESENT         |   |   |   | X | X | X | X | X | X | X        | X       | Apr-Dec  | Apr-Dec  | Apr-Dec  | Apr-Dec | Oct     |         |
|  | Blacknose shark      |   |          | PRESENT         | X | X | X | X | X | X | X | X | X | X        | X       | May-Jul  |          | May-Oct  | May-Oct | Jan-Dec |         |
|  | Blacktip shark       |   |          | PRESENT         |   |   |   | X | X | X | X | X | X | X        | X       | May-Jun  |          | May-Sep  | Mar-Nov | Apr-Nov |         |
|  | Blue runner          |   |          | COMMON          |   |   |   |   | X | X | X | X | X |          |         | Apr-Aug  | Apr-Aug  | Apr-Sep  | Jan-Dec | Jan-Dec |         |
|  | Bluefin tuna         |   | C        | PRESENT         |   |   |   | X | X | X |   |   |   |          |         | Apr-Jun  | Apr-Jun  | Apr-Jun  | Apr-Jun | Apr-Jun |         |
|  | Cobia                |   |          | COMMON          |   |   |   | X | X | X | X | X | X | X        | X       | May-Sep  | May-Sep  | May-Sep  | Mar-Nov | Mar-Nov |         |
|  | Crevalle jack        |   |          | COMMON          |   |   |   |   | X | X | X | X | X | X        | X       | Apr-Aug  | Apr-Aug  | Apr-Sep  | Jan-Dec | Jan-Dec |         |
|  | Dolphin              |   |          | ABUNDANT        | X | X | X | X | X | X | X | X | X | X        | X       | Jan-Dec  | Jan-Dec  | Jan-Dec  | Jan-Dec | Jul-Aug |         |
|  | Finetooth shark      |   |          | -               |   |   |   |   | X | X | X | X |   |          |         |          |          | May-Sep  | May-Sep | May-Sep |         |
|  | King mackerel        |   |          | COMMON          |   |   |   |   |   | X | X | X | X | X        | X       | Jun-Oct  | Jun-Oct  | Jun-Oct  | Jun-Nov | Jun-Nov |         |
|  | Red grouper          |   |          | PRESENT         | X | X | X | X | X | X | X | X | X | X        | X       | Mar-Jul  |          |          |         | Jan-Dec |         |
|  | Round scad           |   |          | HIGHLY-ABUNDANT | X | X | X | X | X | X | X | X | X | X        | X       | Sep-Jan* | Sep-Jan* | Sep-Jan* | Jan-Dec | Jan-Dec |         |
|  | Scalloped hammerhead |   |          | ABUNDANT        | X | X | X | X | X | X | X | X | X | X        | X       | May-Jun  |          | Apr-Oct  | Jan-Dec | Apr-Nov |         |
|  | Spanish mackerel     |   |          | RARE            |   |   |   | X | X | X | X | X | X | X        | X       | May-Oct  | May-Oct  | May-Oct  | Feb-Dec | Feb-Dec |         |
|  | Spanish sardine      |   |          | HIGHLY-ABUNDANT | X | X | X | X | X | X | X | X | X | X        | X       | Mar-Nov  | Mar-Nov  | Mar-Nov  | Jan-Dec | Jan-Dec |         |
|  | Spinner shark        |   |          | -               |   |   |   |   | X | X | X | X |   |          |         | May-Jun  |          |          | Jun-Sep | May-Jun |         |
| Thread herring   |                      |   | COMMON   | X               | X | X | X | X | X | X | X | X | X | X        | Mar-Sep | Mar-Sep  | Mar-Sep  | Apr-Dec  | Jan-Dec |         |         |
| Wahoo  |                      |   | ABUNDANT | X               | X | X | X | X | X | X | X | X | X | X        | Apr-Sep | Apr-Sep  | Apr-Sep  | Jan-Dec  | Jan-Dec |         |         |


(\*) = This life stage occurs during the months listed, but not continuously.

## St Joseph Bay, Florida (continued)

| Habitats and Rare Plants  |                             |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |
|---|-----------------------------|---|---|---------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Subelement  | Species                     | S | F | Concentration | J | F | M | A | M | J | J | A | S | O | N | D |
|  Plant   | Apalachicola dragon-head    | T | - | -             | X | X | X | X | X | X | X | X | X | X | X | X |
|   | Chapman's crownbeard        | T | - | -             | X | X | X | X | X | X | X | X | X | X | X | X |
|   | Florida skullcap            | E | - | -             | X | X | X | X | X | X | X | X | X | X | X | X |
|   | Florida waxweed             | E | - | -             | X | X | X | X | X | X | X | X | X | X | X | X |
|   | Godfrey's butterwort        | E | - | -             | X | X | X | X | X | X | X | X | X | X | X | X |
|   | Narrow-leaved phoebanthus   | T | - | -             | X | X | X | X | X | X | X | X | X | X | X | X |
|   | Panhandle spiderlily        | E | - | -             | X | X | X | X | X | X | X | X | X | X | X | X |
|   | Pine-woods bluestem         | T | - | -             | X | X | X | X | X | X | X | X | X | X | X | X |
|   | Small-flowered meadowbeauty | E | - | -             | X | X | X | X | X | X | X | X | X | X | X | X |
|   | Telephus spurge             | E | T | -             | - | X | X | X | X | X | X | X | X | X | X | X |
|   | Thick-leaved water-willow   | E | - | -             | - | X | X | X | X | X | X | X | X | X | X | X |
|   | West's flax                 | E | - | -             | - | X | X | X | X | X | X | X | X | X | X | X |
| Wiregrass gentian   | E                           | - | - | -             | X | X | X | X | X | X | X | X | X | X | X |   |
|  Wetland | Southern milkweed           | T | - | -             | X | X | X | X | X | X | X | X | X | X | X |   |

| Marine Mammals  |                       |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |        |         |         |         |
|---|-----------------------|---|---|---------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|---------|---------|---------|
| Subelement  | Species               | S | F | Concentration | J | F | M | A | M | J | J | A | S | O | N | D | MATING | CALVING | PUPPING | MOLTING |
|  Dolphin | Bottlenose dolphin    |   |   | -             | X | X | X | X | X | X | X | X | X | X | X |   |        |         |         |         |
|   | Rough-toothed dolphin |   |   | <100          | X | X | X |   |   |   |   |   |   |   |   |   |        |         |         |         |
|  Manatee | West Indian manatee   | E | E | LOW           |   |   | X | X | X | X | X | X | X | X | X |   |        |         |         |         |

| Reptiles and Amphibians   |                          |   |         |               |   |   |   |   |   |   |   |   |   |   |   |         |         |          |             |          |         |
|---|--------------------------|---|---------|---------------|---|---|---|---|---|---|---|---|---|---|---|---------|---------|----------|-------------|----------|---------|
| Subelement  | Species                  | S | F       | Concentration | J | F | M | A | M | J | J | A | S | O | N | D       | NESTING | HATCHING | INTERESTING | JUVENILE | ADULT   |
|  Alligator | American alligator       |   | S       | -             | X | X | X | X | X | X | X | X | X | X | X |         | May-Jul | Aug-Sep  |             |          |         |
|  Snake    | Gulf salt marsh snake    |   |         | -             | X | X | X | X | X | X | X | X | X | X | X |         | Mar-Apr | Jul-Aug  |             |          | Jan-Dec |
|  Turtle  | Diamondback terrapin     |   |         | -             |   | X | X | X | X | X | X | X | X | X | X |         | Apr-Jun | Aug-Sep  |             |          |         |
|   | Green sea turtle         | E | E       | RARE          | X | X | X | X | X | X | X | X | X | X | X |         | Jun-Aug | Aug-Nov  | May-Nov     | Jan-Dec  | Jan-Dec |
|   | Hawksbill sea turtle     | E | E       | RARE          | X | X | X | X | X | X | X | X | X | X | X |         |         |          |             | Jan-Dec  | Jan-Dec |
|   | Kemp's ridley sea turtle | E | E       | PRESENT       | X | X | X | X | X | X | X | X | X | X | X |         |         |          |             | Jan-Dec  | Jan-Dec |
|   | Leatherback sea turtle   | E | E       | RARE          | X | X | X | X | X | X | X | X | X | X | X |         | Jul     | Oct      |             | Jan-Dec  | Jan-Dec |
| Loggerhead sea turtle   | T                        | T | PRESENT | X             | X | X | X | X | X | X | X | X | X | X |   | May-Aug | Jul-Nov | Apr-Sep  | Jan-Dec     | Jan-Dec  |         |

| Terrestrial Mammals  |                         |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |
|--|-------------------------|---|---|---------------|---|---|---|---|---|---|---|---|---|---|---|---|
| Subelement   | Species                 | S | F | Concentration | J | F | M | A | M | J | J | A | S | O | N | D |
|  Small Mammal | St. Andrews beach mouse | E | E | -             | X | X | X | X | X | X | X | X | X | X | X |   |

| Human Use Resources  |                      |  |                             |              |
|--|----------------------|--|-----------------------------|--------------|
| Icon   | Type                 | Name                                   | Contact                     | Phone        |
|  | Wildlife Refuge      | St. Vincent National Wildlife Refuge   | USFWS                       |              |
|  | Water Intake         | City Of Port St Joe Water Pump Station | PLANT OPERATOR              | 850/229-1421 |
|  | Recreational Fishing | Shellfish Harvesting Area              |                             |              |
|  | Port                 | Florida Coast Paper Co Wharf           | FLORIDA COAST PAPER CO, LLC | 904/227-1171 |
|  | Port                 | Port St Joe Dock                       | MATERIAL TRANSFER, INC      | 904/229-8294 |
|  | Park                 | Constitution Convention Museum Sp      |                             |              |
|  | Park                 | St. Joseph Peninsula State Park        |                             |              |
|  | Oil Facilities       | Port St. Joe Facility                  | ARIZONA CHEMICAL COMPANY    | 850/229-8271 |
|  | Marina               | Port St Joe Marina                     | DOCKMASTER                  | 850/227-9393 |

## St Joseph Bay, Florida (continued)

### Human Use Resources (continued)

| Icon   | Type               | Name                                     | Contact          | Phone        |
|--|--------------------|--|------------------|--------------|
|    | Marina             | Presnells Bayside Resort And Marina      | DOCKMASTER       | 850/229-9229 |
|    | Management Area    | Apalachicola River And Bay Swim          | NWFWMD SWIM      | 850/539-5999 |
|    | Management Area    | St. Andrew Bay Watershed Swim            | NWFWMD SWIM      | 850/539-5999 |
|    | Management Area    | St. Joseph Bay Aquatic Preserve          |                  | 850/670-4783 |
|    | Management Area    | St. Joseph Bay State Buffer Preserve     | MATT GREENE      | 850/229-1787 |
|    | Historical Site    | Historic Property                        | FL SHPO          | 850/245-6440 |
|    | Critical Habitat   | Gulf Sturgeon Critical Habitat           | FWRI             |              |
|    | Critical Habitat   | Piping Plover Critical Habitat           | USFWS            |              |
|    | Critical Habitat   | St. Andrews Beach Mouse Critical Habitat | USFWS            |              |
|    | Commercial Fishing | Woods Fisheries-shrimp Processing        | FACILITY MANAGER | 850/227-1517 |
|    | Boat Ramp          | Burketts Boat Ramp                       |                  |              |
|    | Boat Ramp          | City Park                                |                  | 850/227-1223 |
|    | Boat Ramp          | Highland View Public Ramp                |                  | 850/227-1401 |
|    | Boat Ramp          | Presnell's Marina                        |                  |              |
|    | Boat Ramp          | T H Stone Memorial St Joseph Peninsul    |                  | 850/227-1327 |
|    | Beach              | Cape San Blas                            |                  |              |
|    | Beach              | St Joe Penin Sp                          |                  |              |
|   | Artificial Reef    | Artificial Reef                          |                  |              |
|  | Access             | Access                                   |                  |              |

### SHORELINE RESOURCES:

#### ESI Polygon Habitats

| Pattern  | ESI Rank | Habitat                          | Area (meters <sup>2</sup> ) |
|--|----------|----------------------------------|-----------------------------|
|  | 10A      | Salt- and brackish-water marshes | 1,891,334                   |
|  | 10B      | Freshwater marshes               | 1,747,034                   |
|  | 10C      | Swamps                           | 4,583,374                   |
|  | 10D      | Scrub-shrub wetlands             | 6,149,996                   |
|  | 9A       | Sheltered tidal flats            | 117,131                     |
|  | 7        | Exposed tidal flats              | 12,980,944                  |

## St Joseph Bay, Florida (continued)

**Shoreline Types** (Length of ESI Shoreline on Map = 77,705 meters ; Length of Shoreline on Map = 77,730 meters)

| Color  | ESI Rank | Shoreline Habitat                    | Length (meters) | % of ESI Shoreline |
|--|----------|--------------------------------------|-----------------|--------------------|
|  | 10A      | Salt- and brackish-water marshes     | 36,315          | 46                 |
|  | 10B      | Freshwater marshes                   | 1,531           | 1                  |
|  | 10C      | Swamps                               | 332             | <1                 |
|  | 10D      | Scrub-shrub wetlands                 | 2,474           | 3                  |
|  | 9A       | Sheltered tidal flats                | 8,250           | 10                 |
|  | 9B       | Vegetated low banks                  | 6,235           | 8                  |
|  | 8B       | Sheltered, solid man-made structures | 2,799           | 3                  |
|  | 7        | Exposed tidal flats                  | 40,775          | 52                 |
|  | 6B       | Riprap                               | 2,634           | 3                  |
|  | 5        | Mixed sand and gravel beaches        | 14,016          | 18                 |
|  | 3A       | Fine- to medium-grained sand beaches | 27,880          | 35                 |
|  | 3B       | Scarps and steep slopes in sand      | 3,122           | 4                  |
|  | 1B       | Exposed, solid man-made structures   | 1,966           | 2                  |

**Note:** A shoreline segment may include multiple shoreline habitats. If any segments include multiple habitats, the combined length of all habitats will exceed the length of the mapped ESI shoreline, and the percent of ESI shoreline values will sum to greater than 100%.



Content from Florida Panhandle - 2012 ESI Atlas