

# Biotic Resource Synthesis Report Development

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# What is a Biotic Resource Synthesis Report?

A collective description of the park's biotic resources (plants, animals, natural communities), along with associated management issues.



## A park's Biotic Resources include...

The plants, animals, and natural communities (both terrestrial and aquatic) within park boundaries

- common or characteristic species/communities
- rare species/communities
- invasive species



## Project Purpose

Gather information on the biotic resources of FIIS from a variety of sources

Summarize existing information in a manner that is relevant, accessible, easily understandable, and transferable

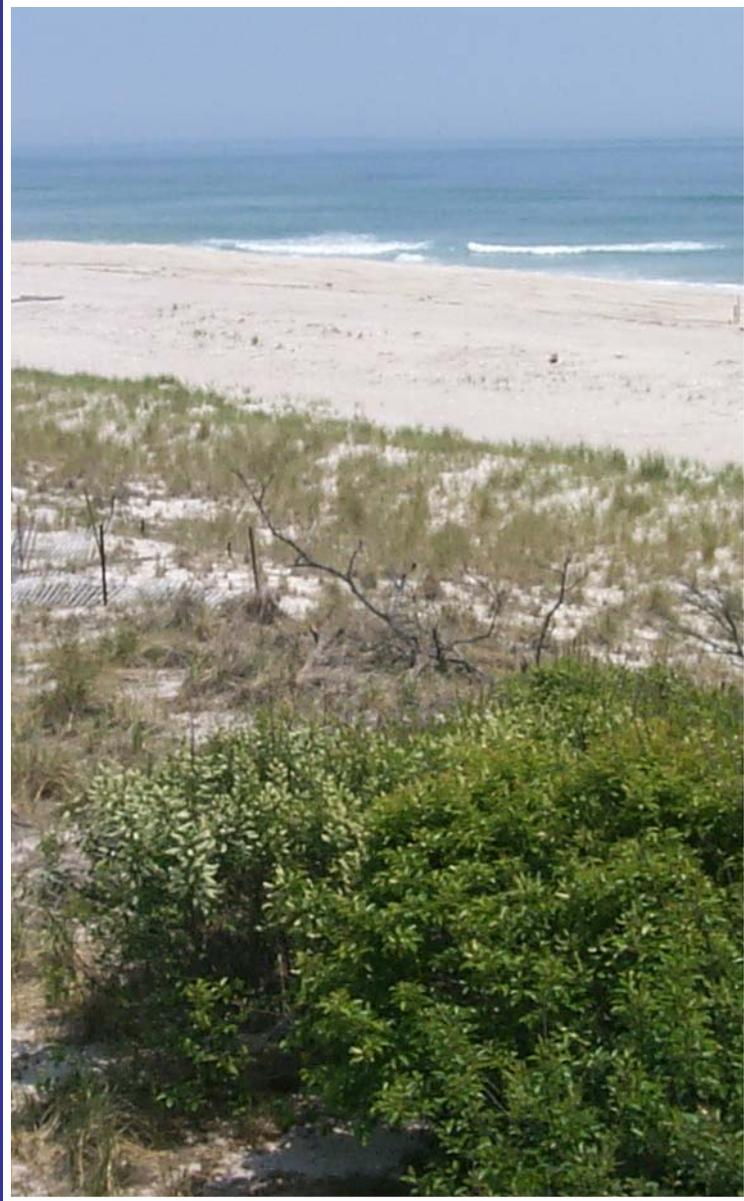


## **For each biotic resource identified:**

- 1) provide information on the current status and significance at a variety of spatial scales – within the park, state, region, etc...
- 2) describe any known threats within the park
- 3) identify any recognized gaps in information
- 4) provide a list of suggested management recommendations for future consideration

## Steps taken for FIIS Bio Syn Rpt...

- 1) review NPS documents, technical reports, NPSpecies references, available GIS data, and web-based research
- 2) create a project outline to help guide the development of the report, and to facilitate feedback from I&M program staff and park natural resource staff on project development



- 3) visit the park and meet with park natural resource staff
- 4) gather and review key documents; speak with collaborators and subject matter experts; identify all available data, known needs, perceived threats, desired outcomes, best management practices

5) Conduct additional research on individual resources to better understand the significance, current state of scientific knowledge, and associated best management practices.

6) Summarize and compile into a standard format



**Some examples from FIIS...**

# Seabeach Amaranth

## *Current Status & Significance:*

- ecological description
- critically imperiled globally
- monitored annually in the park



# Seabeach Amaranth

## *Threats:*



- human disturbance to beach habitat
- deer browse?
- shoreline change that results in the loss of beach habitat
- invasion by Asiatic Sand Sedge

# Seabeach Amaranth

## *Gaps in Knowledge:*

- effects/degree of human disturbance
- causes of population decline since monitoring began in 2003



## Seabeach Amaranth

### *Suggested Management Recommendations:*

- continue efforts to limit human disturbance (symbolic fencing, beach vehicle restrictions, etc.)



# Seabeach Amaranth

## *Suggested Management Recommendations:*

- continue annual monitoring, develop adaptive management strategies



## Seabeach Amaranth

### *Suggested Management Recommendations:*

- monitor beach and dune habitat for the presence of the invasive Asiatic Sand Sedge



## Seabeach Amaranth

### *Suggested Management Recommendations:*

- obtain additional data on the effects of human disturbance on beach-germinating species



# Seabeach Amaranth

## *Suggested Management Recommendations:*

- review data gathered through the Northeast Coastal and Barrier Network's long term monitoring protocols for shoreline position and coastal topography regularly with park managers, so that adaptive management strategies can develop





**Questions?**

**Comments?**