the Florida Natural Areas Inventory (FNAI) and biodiversity in a natural condition as defined by the Florida Natural Areas Inventory (FNAI) and the Florida Department of Natural Resources.

**Background and History**
The University of North Florida opened its doors to students in 1972. Historically, the land was used for logging and turpentine production by the Skinner family, who donated approximately 500 acres of the original 1000 acre campus. Unfortunately, due to lack of official records and data, much of the historical ecosystem diversity and environmental condition of the land is unknown.

UNF founding president, Thomas Carpenter, had the entire campus declared a “bird sanctuary” by the Florida Game and Freshwater Fish Commission in 1970. In May 2006 a 385 acre portion of campus was officially designated “Sawmill Slough Preserve” by the UNF Board of Trustees and President John Delaney. Members of the Sawmill Slough Conservation Club (SSCC) and led by SSCC president Dr. Robert Lofin, the land was declared a habitat of significance and was named the Preserve. The Preserve is located on the main campus Loop road and provides educational opportunity to students and research potential for scientists from many fields.

Anthony Rossi and Dr. Kelly Smith also helped shape the Preserve. John M. Golden, a SSCC founder, Dr. Robert Lofin, to whom the nature preserve is dedicated. John M. Golden, a SSCC founder, Dr. Robert Loftin, to whom the nature preserve is dedicated. In May 2006 a 385 acre portion of campus was officially designated “Sawmill Slough Preserve” by the UNF Board of Trustees and President John Delaney.

**Vision**
The Preserve mission is to conserve natural biodiversity. The Sawmill Slough Preserve is open to students in 1972. Historically, the land was used for logging and turpentine production by the Skinner family, who donated approximately 500 acres of the original 1000 acre campus. Unfortunately, due to lack of official records and data, much of the historical ecosystem diversity and environmental condition of the land is unknown.

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**Practices and Projects**

- **Invasive Plant Control**: Removal of tallow, camphor, chinaberry, mimosa, tree, air potato, climbing fern, soda apple, showy rattlebush, Brazilian pepper. Watch for coral ardisia and other potential pest plants.
- **Campus Natural Assets Inventory (CNAI)**: Presence/Absence surveys.
  - Plants (355+)
  - Trees 12 Carnivorous spp.
  - Birds (14+3)
  - Reptiles/Amphibians (61+)
  - Insects/Invertebrates (180+)
  - Mammals (21+)
  - Fish (14+)
  - Lichens (4+)
- **Water Quality Monitoring**: Yellow / Outflow of preserve.
- **Digital Archive**: Online inventory lists. Interactive map. Wildlife camera.
- **Eco-road Monitoring**: Three wildlife crossings installed (1 large mammal, 2 small mammal). Roadkill data collected by Dr. Rossi and his Ecology students compared UNF Eco-road to the main campus Loop road. Roadkill studies illustrate significantly less mortality along the Eco-road. Camera traps demonstrate wildlife consistenly utilize each crossing.
  - White-tailed deer
  - Bobcat
  - Raccoon
  - Opossum
  - Armadillo
  - Marsh rabbit
  - Gray squirrel

**Natural Communities**
- Sandhill
- Mesic flatwoods
- Wet flatwoods
- Wet prairie
- Bottomland forest
- Drainage swamp
- Seepage stream
- Blackwater stream

**ENVIRONMENTAL CENTER**

**Faculty Research on the Preserve**

- Anthony Rossi, Ph.D. (Biology)
  - Pitcher plants, turkey oak, laurel wilt
- Daniel Minon, Ph.D. (Biology)
  - Pitcher plants, bryophytes
- Joseph Butler, Ph.D. (Biology)
  - Gopher tortoise monitoring
- Kenny Clark, Ph.D. (Public Health)
  - Tick associated pathogens

**Gopher tortoise monitoring**

- Dr. Robert “Doe” Lofin in the Sawmill Slough (left).

**MANAGEMENT OF THE SAWMILL SLOUGH PRESERVE, UNIVERSITY OF NORTH FLORIDA**

Justin Lemmons, Chuck Hubbuch, Dr. Anthony M. Rossi

University of North Florida, Jacksonville, FL.

**Figure 1**: Number of dead animals along the Eco-rd. and Loop rd. reflecting sampling effort (days) from 2011-2012.

**Figure 2**: Diversity and quantity of roadkill along the Eco-rd. and Loop rd. from 2011-2012.