

Conservation Supporting Data

The purpose of the Conservation Element is to ensure the conservation, protection, and wise use of all natural ecosystems and natural resources on the University campus and in the context area.

1. Inventory and Analysis of Existing Conditions

1.a. Inventory of the Existing Natural Resources on the University Campus and within the Context area adjacent to the University

No portion of the Davie Campus, either of the existing campus or the newly acquired property have been designated an existing Natural Resource. The only area that FAU should consider to maintain and preserve is the palm grove that the UF/IFAS program currently uses to study palm trees. This area can be visually appealing as well as a resource to future University programs.

1.a.1. Rivers, Lakes, Bays, Wetlands, and Bottom Lands

There are no wetlands of any kind on the Davie Campus.

1.a.2. Floodplains

100% of the campus is in the 100-year floodplain, AH zone, per FEMA maps; this zone shows a 100-year flood elevation of 7.5 to 8.5. Refer to **Figure 13.1**. The campus parking lots and vacant land routinely retain water, in the form of large puddles, after heavy rainfall.

1.a.3. Known Unique Geological Features (Springs, Sink Holes, etc.)

None

1.a.4. Existing Mitigation Sites

None

1.a.5. Fisheries, Wildlife Habitats and Vegetative Communities, Indicating Existing Dominant Species Present and Species Listed by Federal, State or Local Agencies as Endangered, Threatened or Species of Special Concern

There are no natural or artificial fisheries in the area of the campus. The Town of Davie contains many canals, lakes, and ponds that have fish and wildlife.

SUPPORTING DATA**MASTER PLAN****13 Conservation****1.a.6. Well-field Cones of Influence**

None identified on campus.

1.a.7. Aquifers and Aquifer Recharge Areas

None identified on campus.

1.a.8. Air Quality

Information not available.

1.a.9. Surface Water Quality

Information not available.

1.a.10. Known Septic Tanks, Grease Traps, Storage Sites of Hazardous, Toxic, or Medical Waste

There are no known septic tanks, grease traps, storage of hazardous, toxic, or medical waste sites on campus.

1.a.11. Chemical and Hazardous Waste Disposal Systems

Hazardous waste is disposed of by private contractor who is totally responsible for disposal in compliance with all regulations. The University does handle the disposal of some unique hazardous wastes in small quantities through the Department of Environmental Health and Safety.

1.a.12. Surface and Groundwater Hydrology

Much of the storm water disposal on the campus is through percolation or absorption into the ground. There are vast areas of pavement, portions of the old air field, that have no apparent positive drainage.

The entire area surrounding the and including the Davie Campus is prone to stormwater management problems. Campus Administration as well as Town officials are aware of the problem and are hoping to incorporate management plans into the current and upcoming master plans.

1.a.13. Noise Abatement

There are no outstanding noise issues at the Davie Campus, although there is occasional noise from the close proximity to Fort Lauderdale / Hollywood

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International Airport, but it is not enough to disrupt University activities.

2. Future Needs/Requirements**2.a. Existing Commercial, Recreational, and Conservation Uses for the Following:**

- **Palm Grove**

FAU is required to manage and maintain the palm grove for eight years of the ten year planning horizon, to give UF/IFAS time to remove/ relocate or replant the trees species that exist within the palm grove. UF/IFAS will leave behind any trees that are unable to be moved, or that they do not need for future research. The visual appearance of the trees is pleasing and will be enhanced with regular maintenance of the grove. FAU may be able to put the area to good use, such as a teaching or study lab, or for recreational purposes such as a preserve or nature path.

- **Floodplains**

Refer to 1.a.2

- **Known Unique Geological Features (Springs, Sink Holes, etc.)**

None

- **Existing Mitigation Sites**

None

- **Fisheries, Wildlife Habitats and Vegetative Communities, Indicating Existing Dominant Species Present and Species Listed by Federal, State or Local Agencies as Endangered, Threatened or Species of Special Concern**

There are no environmental habitat areas identified on the University portion of the Davie Campus; however, there is a burrowing owl nest located in a small field by the parking on the north end of the East Campus.

- **Well-field Cones of Influence**

None

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- **Aquifers and Aquifer Recharge Areas**

None

- **Air Quality**

Information not available/None

- **Surface Water Quality**

Information not available/None

Known Septic Tanks, Grease Traps, Storage Sites of Hazardous, Toxic, or Medical Waste

- **Chemical and Hazardous Waste Disposal Systems**

The University Department of Environmental Health and Safety coordinates the disposal of its waste hazardous materials through private contractors who are responsible for disposal in compliance with all regulations. The University monitors contractors for regulatory compliance environmental problems, and their capability to continue to serve an expanding University. The University recycles or reclaims some hazardous and non-hazardous materials for pollution prevention and waste minimization purposes.

- **Surface and Groundwater Hydrology**

The current ground absorption of storm water is not acceptable and will need to be managed.

2.b. Opportunities and Methods for Protection or Restoration of the Following:

- **Palm Grove**

Refer to Above

- **Floodplains**

The entire Campus is within the flood plain.

- **Known Unique Geological Features (Springs, Sink Holes, etc.)**

None

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- **Existing Mitigation Sites**
None
- **Fisheries, Wildlife Habitats and Vegetative Communities, Indicating Existing Dominant Species Present and Species Listed by Federal, State or Local Agencies as Endangered, Threatened or Species of Special Concern Maintenance**
- **Well-field Cones of Influence**
None
- **Aquifers and Aquifer Recharge Areas**
None
- **Air Quality Information**
Not available
- **Surface Water Quality Information**
Not available
- **Known Septic Tanks, Grease Traps, Storage Sites of Hazardous, Toxic, or Medical Waste**
None
- **Chemical and Hazardous Waste Disposal Systems**
See Above
- **Surface and Groundwater Hydrology**
See Above
- **Chemical and Hazardous Waste Disposal Systems**
No known sources or generators of pollution.
- **Surface and Groundwater Hydrology**
No known sources or generators of pollution.

2.d. Opportunities for the Following:

- **Rivers, Lakes, Bays, Wetlands, and Bottom Lands**

There are no wetlands on the Davie Campus.

- **Floodplains**

None as yet identified.

- **Known Unique Geological Features (Springs, Sink Holes, etc.)**

None as yet identified.

- **Existing Mitigation Sites**

None as yet identified.

- **Fisheries, Wildlife Habitats and Vegetative Communities, Indicating Existing Dominant Species Present and Species Listed by Federal, State or Local Agencies as Endangered, Threatened or Species of Special Concern**

There are no fisheries, wildlife habitats, or vegetative communities on the Davie Campus other than the palm grave discussed above.

- **Well-field Cones of Influence**

None as yet identified.

- **Aquifers and Aquifer Recharge Areas**

None as yet identified.

- **Air Quality**

Information not available.

- **Chemical and Hazardous Waste Disposal Systems**

No known sources or generators of pollution.

- **Surface and Groundwater Hydrology**

No known sources or generators of pollution.

2.e. Current and Projected Water Needs and Sources

All FAU campuses are served by municipal water systems and are adequately supplied. Information regarding future water projections are not available at this time.