

Protect and Enhance the Lake Worth Lagoon Ecosystem

Management Goal

Management Objectives

Research Objectives

Attributes

Information Needs: Examples

Outcome/Products

Minimize Watershed Impacts

Improve Lagoon Condition (Abiotic)

Protect and Enhance Lagoon Resources (Biotic)

Outreach

Assess Current Status Water Budget

Quantify Watershed Loading

Predict Response to Watershed Management Alternatives

Characterize Water Quality

Evaluate Salinity Due to Flow & Sea Level Rise

Predict Estuary Response

[Shaded]

[Shaded]

Components of Watershed Budget

WQ Components for Loading Calculations

Simulation / Calculation

Sediment and Nutrient Patterns and Trends

Flow/ Salinity Relationship

Relationship/ Linkages (To be developed)

Rainfall, evapo-transpiration, GW data

Nutrient & sediment conc. and flow data

WQ data in estuary

Flow, velocity, sediment & salinity data

Hydro-dynamic & salinity model

Watershed hydrological model

BMP efficiency

Nutrient & sediment trends

Bathymetry data

WQ Model

Soil, landuse, topography, canal data

Watershed model

Nutrient & sediment budget

Shoreline survey

Interface linkage between watershed, hydrodynamics and WQ model

GW data

EMC data

Rainfall data

Benthic nutrient flux & SOD data

Groundwater input

Note: Shaded areas are outside the scope of the Water Working Group.

Note: This section is under development and entries are for example.

Work products, results, recommendations, etc.