

Management Goal

Protect and Enhance the Lake Worth Lagoon Ecosystem

Management Objectives

Minimize Watershed Impacts

Improve Lagoon Condition (Abiotic)

Protect and Enhance Lagoon Resources (Biotic)

Research Objectives

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 Box]

Attributes

Components of Watershed Budget

Water Quality Components for Loading Calculations

Simulation / Calculation

Sediment and Nutrient Patterns and Trends

Flow/Salinity Relationships

Relationships/Linkages (To be determined by working w/ modelers)

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

Information Needs: Examples

Rainfall, evapo-transpiration, GW data

Nutrient & sediment conc. and flow data

[Empty Box]

WQ data in estuary

Flow, velocity, sediment & salinity data

Hydro-dynamic & WQ Model

Watershed hydrological model

BMP efficiency

[Empty Box]

Nutrient & sediment trends

Bathymetry data

Interface linkage between

Soil, landuse, topography, canal data

Watershed model

[Empty Box]

Nutrient & sediment budget

Shoreline survey

[Empty Box]

GW data

Benthic nutrient flux & SOD data

Groundwater input

EMC data

Rainfall data

Outcome/Products

Work products, results, recommendations, etc.

