



Key Green Visions Planning Tools

IRWMP Leadership Committee Meeting
28 May, 2008

The slide features a header with three panels: a street map, the Green Visions Plan logo (a green square divided into four quadrants with icons of a bird, a person on a bicycle, a leaf, and a leaf), and a topographic map of the region. The main text is centered on a dark blue background.



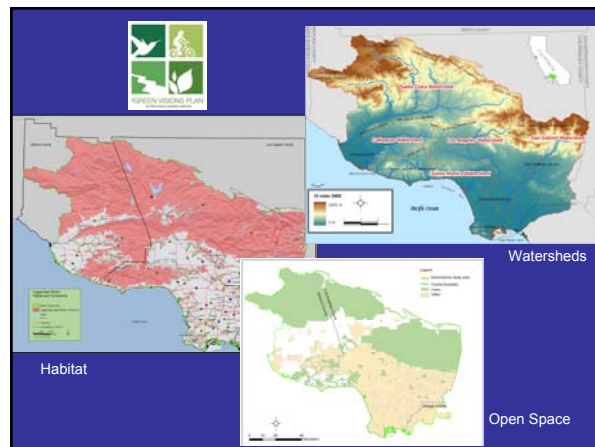
Decision Support Tools for Policymakers

The slide has a dark blue background with the title in white. Below the title, there are two overlapping images of documents or reports, one showing a grid and the other showing a map with various colored zones.



Planning Toolkit

The slide displays a collage of six maps and diagrams. The top row includes a 3D cross-section of land layers, a map labeled 'Green Cover', and a map labeled 'People Per Park Acre'. The middle row features the Green Visions Plan logo and a map with a network of lines. The bottom row includes a map labeled 'Fitnessgram & Parks', a map labeled 'Historical Ecology', and a map labeled 'Population Density and Stream Networks'.



Habitat

Watersheds

Open Space

This slide shows three maps of the same geographic area. The top map is a topographic map with elevation contours. The middle map is a habitat map with red and orange areas. The bottom map is an open space map with green and yellow areas. A legend and scale are visible on the top map.



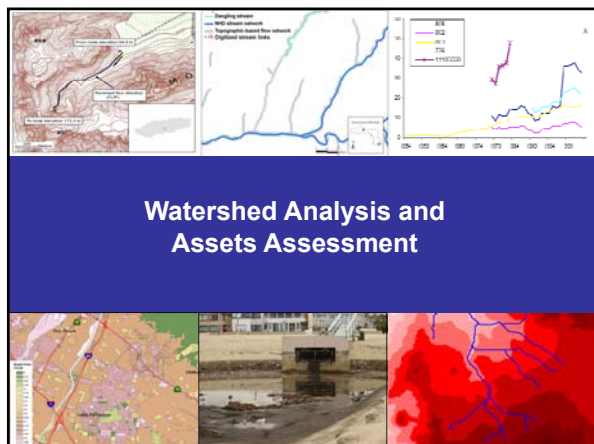
Park Supply and Quality Assessment Tools

The slide features two maps of a city grid. The top map shows various parks and green spaces in green, with labels for 'Agustine F. Hawkins Natural Park' and 'Bethune Mary McLeod County Park'. The bottom map shows a similar grid but with different colored overlays representing park quality or supply.



Ecological Assessment and Target Species Tools

The slide displays a collage of five maps. From left to right: a topographic map, a historical map of Florida, a map with red and white areas, a map of a river system labeled 'Pittsburg Drainage', and a map of a river system labeled 'Little River' with a legend for 'Habitat Types'.



Watershed Analysis and Assets Assessment

This slide features a top section with a map of a watershed, a legend, and a line graph showing data over time. The bottom section contains three smaller images: a street map, a photograph of a construction site, and a red-toned map of a watershed network.

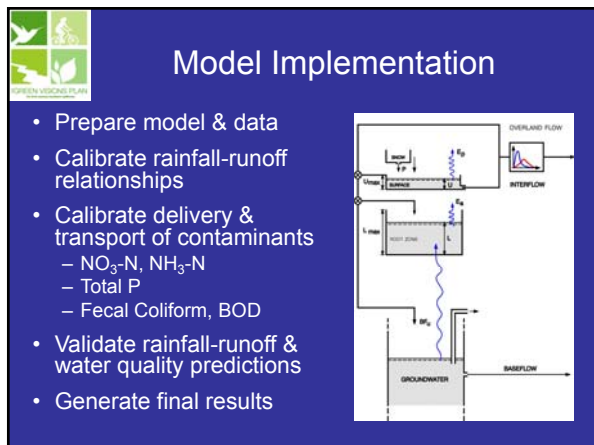


MIKE BASIN

- Determine quantities of contaminants entering stream network
- Simulate transport of contaminants in reservoirs, rivers, and groundwater
- Predict water quality by stream catchment

From LASGRWC

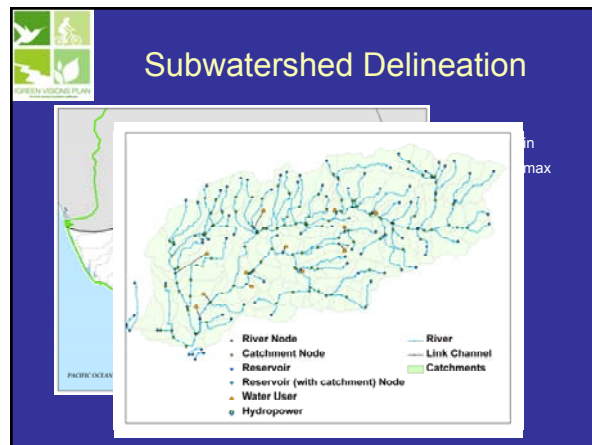
This slide includes a logo in the top left, a list of three bullet points, a photograph of a large pile of trash, and a photograph of a stream with white water rapids.



Model Implementation

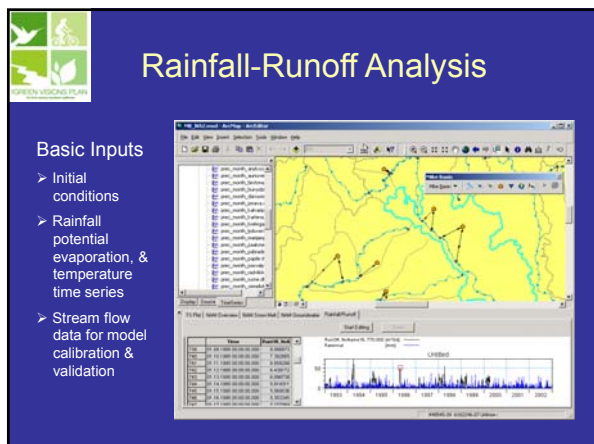
- Prepare model & data
- Calibrate rainfall-runoff relationships
- Calibrate delivery & transport of contaminants
 - NO₃-N, NH₃-N
 - Total P
 - Fecal Coliform, BOD
- Validate rainfall-runoff & water quality predictions
- Generate final results

This slide features a logo in the top left, a list of five bullet points, and a schematic diagram of a hydrological model showing overland flow, interflow, and groundwater interactions.



Subwatershed Delineation

This slide includes a logo in the top left, a map of a subwatershed with a network of channels, and a legend. The legend identifies symbols for River Node, Catchment Node, Reservoir, Reservoir (with catchment) Node, Water User, and Hydropower. It also lists symbols for River, Link Channel, and Catchments.



Rainfall-Runoff Analysis

Basic Inputs

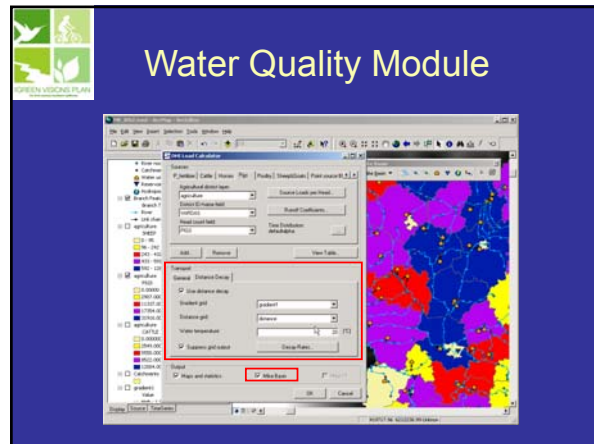
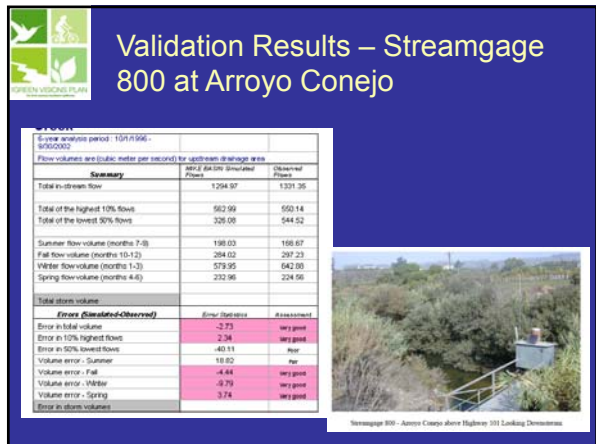
- > Initial conditions
- > Rainfall potential evaporation, & temperature time series
- > Stream flow data for model calibration & validation

This slide features a logo in the top left, a list of three bullet points, and a screenshot of a software interface showing a map and a data table.

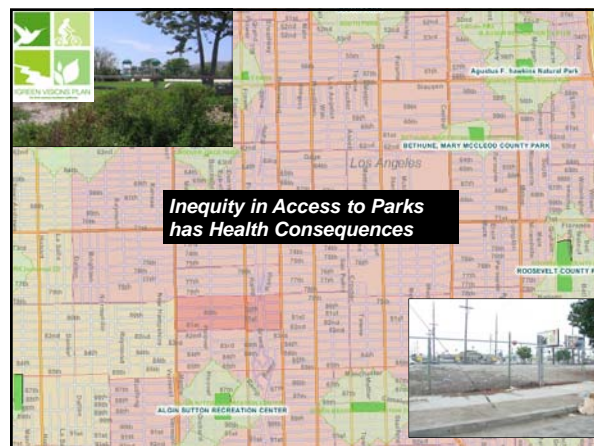
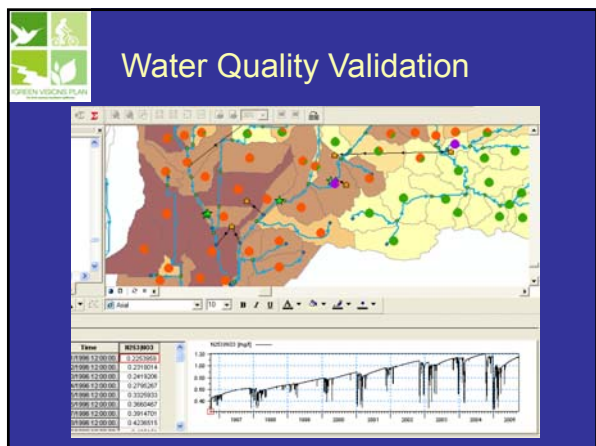
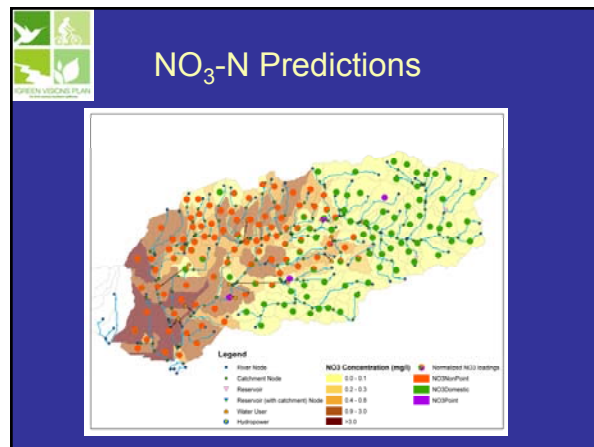


Monitoring Data

This slide includes a logo in the top left and a collage of four photographs: a stream, a water treatment facility, a person in a field, and a person in a stream with a red container.



- ### Contaminant Sources
- Fertilizer Sources
 - Crop data from Ventura County Agricultural Commissioner's Office
 - Fertilizer application rates from literature
 - Distance decay (reduction) factor from calibration results
 - Livestock Sources
 - Very few
 - Domestic Sources
 - Revised Landscan population estimates
 - Sewage data from Ventura County Resource Management Agency
 - Distance decay (reduction) factor from calibration results
 - Point Sources
 - Five major NPDES





**Green Visions Plan Spatial
Decision Support Tools**
Parcels / Analysis / Action
<http://>