

Rim Watersheds

Model Inputs

Category Sub Category Data Object

Hydrology

Flow

Flow Gage or Modeled time series

Linear or S curve Interpolation where gage data unavailable

Model Outputs

time series of inflows to major reservoirs and inflows to the valley floor

Inflows to Reservoir

Inflows to Valley floor watershed

Valley Floor Watersheds

Model Inputs

Category Sub Category Data Object

Demand

Agricultural Demand

Applied water demand for rice (AWr)
Applied water demand for other agricultural crops (AWo)

Wetland Demand

Applied water demand for permanent, semi-permanent, and seasonal wetlands (AWw)

Urban Demand

Urban demand (UD), acre-feet

Land Use

Land Use Specification

Crop Categories - From California Water Plan

Wetland area for each DU

Rive land area for DU

Habitat acreage, land use for each DU

Evapotranspiration

Evapotranspiration

Crop Evapotranspiration timeserries (inches)

Reference Evaporation

Pan Evaporation

Precipitation

Precipitation

Precipitation Time Series (inches)

Other

Other

Crop Rooting Depths

Growing and Irrigation Season

Irrigation Inefficiency

Minimum Soil Moisture

Field Capacity and Total Porosity

More rice outputs: Precipitation, ET, Pondered soil water storage

RWUM (Rice water use model)

Integrated Demand Calculator

Refuge Water Use Model

Rainfall Runoff Model (Daily timestep)

Monthly Precipitation

Monthly Effective Precipitation

Monthly unit infiltration in inches

Surface runoff not input but can be calculated by subtracting infiltration from precipitation

Model Outputs

Applied water for other crops

Applied water for rice

Applied Water for Managed Wetlands

Deep Percolation

Tailwater

Urban Demand

Wastewater

Surface Water Runoff

Delta inflow

SWP Exports

CVP Exports

Potentially add more delta dynamics in