Why use GoldSim simulation software for integrated water resources management?

GoldSim is ideal for a high level systems approach to water resources modeling. With its hierarchical design, it also supports detailed process modeling and linking components together in a format managers can use and communicate. GoldSim has been used for hundreds of complex water balance models to assist modelers in clearly presenting results to diverse audiences, managing large input and output datasets, and clearly documenting model logic.

What is GoldSim?

GoldSim is a visual modeling language for realistic simulations of integrated water resources management problems. GoldSim models consist of high-level elements that are automatically connected in an influence diagram, making calculations more transparent to reviewers and colleagues. GoldSim has a powerful Monte Carlo analysis engine for risk analysis in integrated water resources management and also supports optimization analysis.

GOLDSIM APPLICATIONS

- Integrated river basin planning
- Water reuse studies
- Water supply reliability assessments
- Regional water planning
- Agricultural water accounting
- Multi-criteria decision making
- Reservoir operation strategies
- Demand management studies
- Water rights allocation models
- Water-energy models
- Watershed runoff models
- Hydropower optimization
GoldSim Features

- **Visual user interface** GoldSim is highly graphical and user friendly
- **Excel and database integration** Models integrate seamlessly with MS-Excel and databases
- **Built-in optimization** GoldSim has a user-friendly tool for automatic calibration or design optimization
- **Free player models** Models can be freely distributed as “player” files
- **Robust plotting capabilities** Plots allow extensive customization
- **Transparency of model logic** Variable dependencies are shown with influences
- **Custom interfaces and model logic** Models can be controlled by “dashboards”
- **Monte Carlo analysis** Models can have stochastic or uncertain inputs and there are powerful tools for analyzing uncertainty in outputs
- **Built-in unit conversions and dimensional consistency checks** GoldSim reduces error rates through its units and dimensions database

**SELECTED GOLDSIM CUSTOMERS**

- AECOM
- Alberta WaterSMART
- Argonne National Laboratory
- Bechtel
- Bureau of Reclamation
- California Department of Water Resources
- CDM
- CH2M HILL
- Cramer Fish Sciences
- Los Alamos National Laboratory
- Malcolm Pirnie
- MWH
- Parsons Brinckerhoff
- Sandia National Laboratories
- Schlumberger Water Services
- South Florida Water Management District
- Texas Commission on Environmental Quality
- University of Washington
- URS

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