

Graphical Policy Analysis Tool

RiverWare User Group Meeting February 6 - 7, 2007

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Why GPAT?

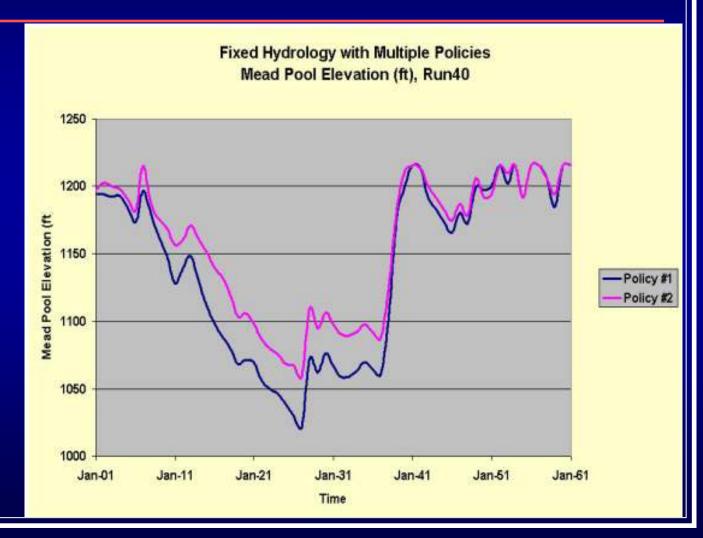
- RiverWare Output Large, esp.
 - Alternative Hydrologic Scenarios or Histories
 - Alternative policies
- Information from Data
 - Statistics
 - Graphs
 - Dynamic
- Presentations and Documents
 - e.g. Stakeholders meetings and EIS

What is GPAT?

- Excel Add-in written in VBA
 - Download from the RiverWare web site
- Inputs are Excel Workbooks
 - Dimensions are Slots, Time, Runs, and Policies
 - Variety of orientations
- Outputs are Charts and Worksheets in a Workbook
 - Typical Chart: several statistical time series
 - Present directly or paste into documents

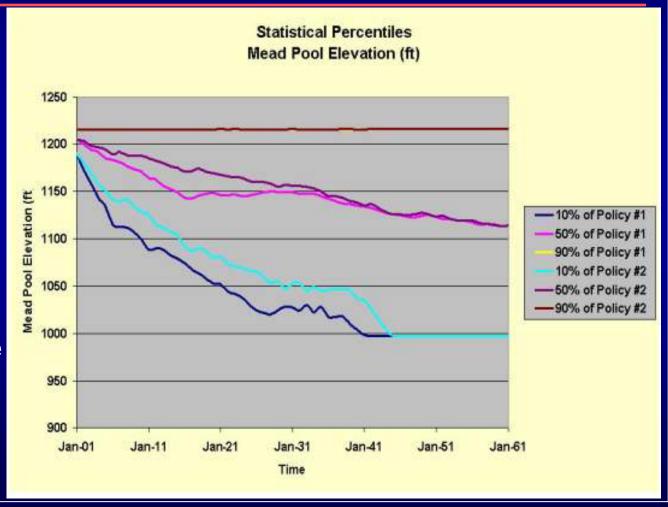
Compare Traces

Compare traces under different policies



Simple Statistics

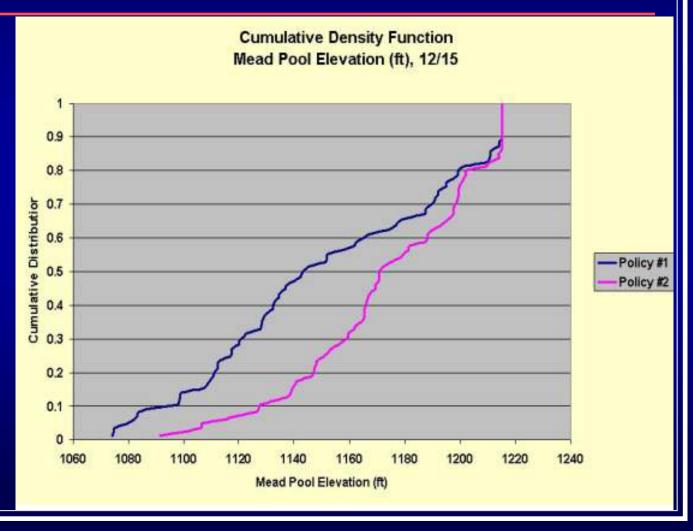
- Minimum
- Maximum
- Mean
- > Std. Dev.
- Median
- Percentiles
 - Alternative Methods



Distributions

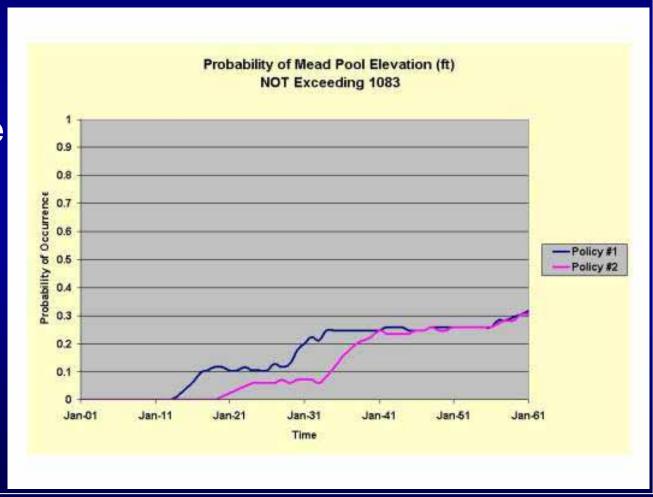
Histogram CDF

- One date
- All time
- Annual peak
- Maximum for a given duration



Probability of Events

- Binary events
- Exceedance
- Occurrence in a range
- Compound Events



Potential Enhancements

- More format control
 - Titles
 - Axes Titles and Scales
- Save and load graph formatting preferences
- CDF: Plot only every nth point
- Histogram for all distribution graphs (#3)
- Allow plotting of multiple runs with different numbers of traces
- Allow time steps as columns
- Others?