Integration of RiverWare into CWMS

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2018 RiverWare User Group Meeting
Corp Water Management System

• Modeling Framework that integrates USACE models together
• Operate the system across modeling applications
• Integration uses HEC-DSS to move data
Some Supported Models in CWMS

- HEC MFP – Precipitation forecast
- HEC HMS – Rainfall Runoff
- HEC Res Sim – Reservoir Modeling
- HEC RAS – Flood Inundation Analysis
- HEC FIA – Flood Impacts Analysis
RiverWare Display Functionality

• Show RiverWare models in the CWMS framework
• Display objects in the maps and interface
RiverWare Interface Opens

- SCT
- RPL Sets
- Plots
- Objects
- Workspace
- Diagnostics
CWMS “Compute”

- Each model is run in sequential order
- Data is automatically loaded
  - Input data from previous model
  - Output data sent to the next model
- All models use HEC-DSS for data transfer
- RiverWare uses Database DMIs
Upcoming work

• Investigate ways to aggregate / disaggregate data to different time scales
  • HMS models = 1hr
  • RiverWare = 1day
  • RAS = 1hr or 6hr
• CWMS Version compatibility: CWMS 3.1 will require DSS 7
• Questions?