

CE-QUAL-W2

CE: Corps of Engineers

QUAL: Quality

W2: Width averaged 2D

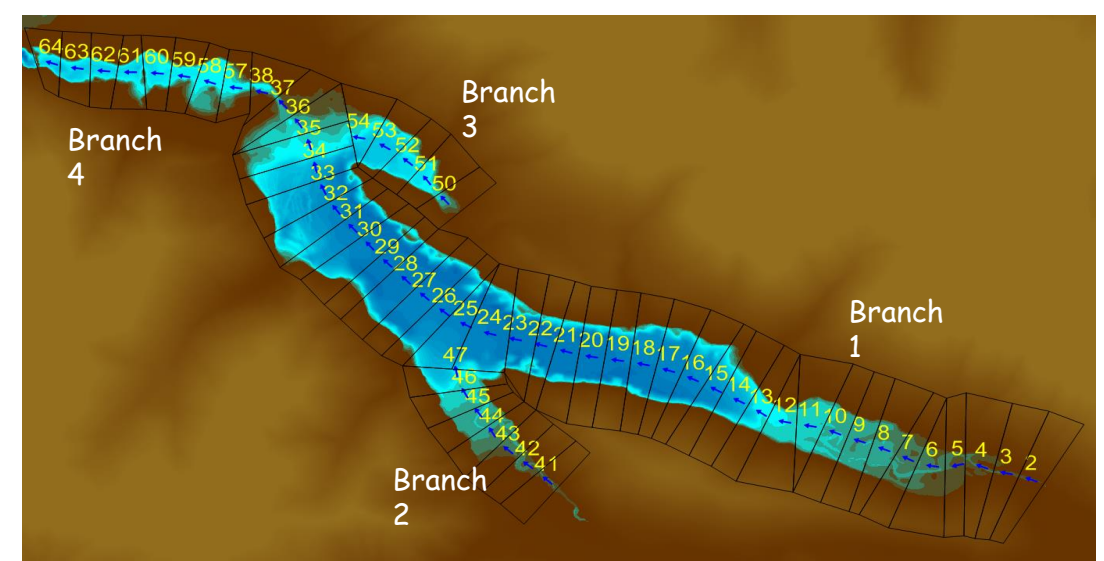
Past Development/User Manuals:

Edinger and Buchak (1975-1983)

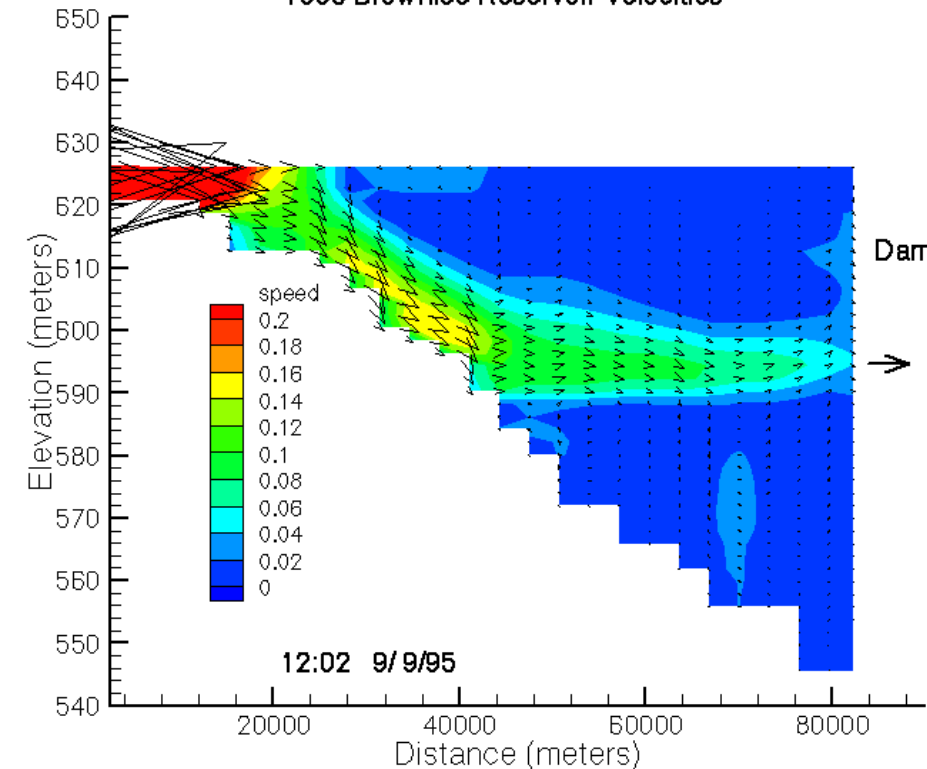
Corps of Engineers (1986)

Cole and Buchak (1995)

Cole and Wells (1999-2019)



1995 Brownlee Reservoir Velocities



- 2D, width averaged, hydrodynamic and water quality model well-suited to long narrow systems that stratify
- Open-source code
- Features: Sediment diagenesis, particle transport, eutrophication model (temperature, nutrients, algae, periphyton, macrophytes, organic matter, suspended solids, zooplankton), TDG, vegetative and topographic shading, CH₄, H₂S, Fe and Mn, generic constituents (water age, bacteria, toxics)
- About 30 web site visitors/day and almost 4 model downloads/day, active use throughout the world (US, Canada, China, Germany, South Korea, Turkey, Australia, Brazil, Iran, Japan, Taiwan, France, UK, South Africa)
- Yearly workshop at Portland State University

Model download and current User Manual: <http://www.cee.pdx.edu/w2>