

# Riparian Issues & Flood Control:

Past, Present, & Future Challenges & Opportunities

### Timothy S. Phillips, P.E.

Chief Engineer and General Manager Flood Control District of Maricopa County



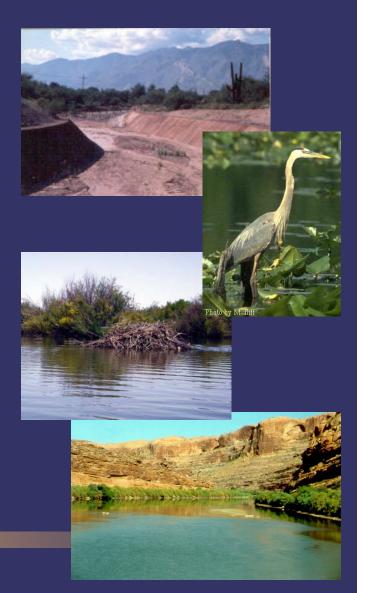
### "Riparianism" according to Tim...

And the Government said "Let there be projects to protect the public!"

And the Public said "But we want your projects to...!"

And then you were asked "Where is Riparian Nirvana?"

And then all were asked "Now what?"

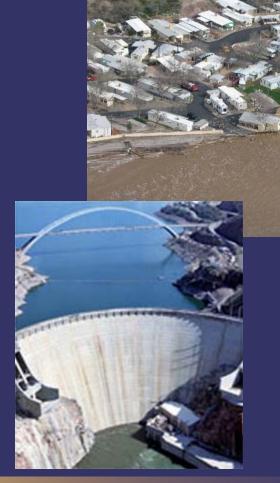


And the Government said,

"Let there be projects to protect the public!"

Its all about function...

- Grazing and mining
- Floodwater conveyance
- Obstructions to river navigability
- Water supply storage/ irrigation delivery
- Electric power



### And the Public said

### "But we want your project to...!"

#### **Era of Environmental Activism**

1962: "Silent Spring" by Rachel Carson

1964: Wilderness Act

1968: Wild and Scenic Rivers Act

**1969**: National Environmental Policy Act

1970: First EARTH DAY

1970: EPA Established

**1973**: Endangered Species Act

1977: Clean Water Act

But actually Teddy Roosevelt in 1902 Reclamation Act and 1918 Migratory Bird Act were early efforts.









#### RELEVANT READY RESPONSIVE RELIABLE

Proudly serving the Armed Forces and the Nation now and in the future.









Securing Arizona's Water Future
Celebrating

Years



# Pima County Flood Control District



# And then you asked "Where is Riparian Nirvana?"

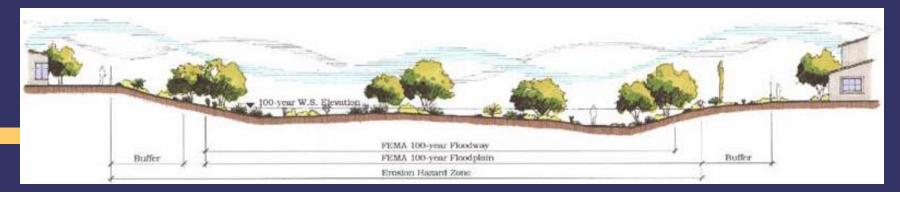


# **Drivers of Change**

- Growth/Development
- Politics
- Funding Availability
- Public Expectation
- Changing Perception







# Challenges

- Land, Capital & Maintenance Costs
- Organizational Culture & History
- Development & Preservation
- Habitat & Conveyance
- Regulatory Acceptance
- Piecemealed Solutions
- Multi-Jurisdictional Control
- Operation and Maintenance
- Interagency Rivalry







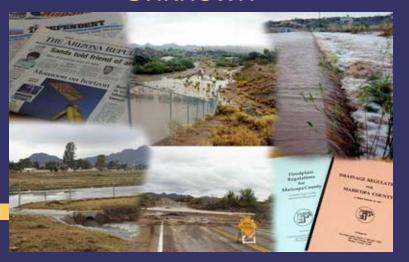




"If you continue to do what you always have done, you will continue to get what you always have gotten!"

—Unknown





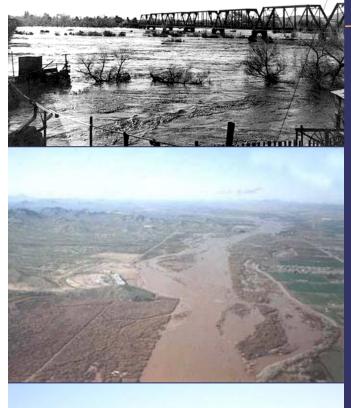
### Public/Private Partnership



**Federal/State/Local**Regulation needs to be consistent/ achievable

Consensus in Federal, State, Local, NGO Agenda

Time/ Dollars/Patience





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### Questions

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