Meeting Fishery Resource Goals through an Integrated Restoration Strategy

South Delta Fish Facilities Forum (SDFFF)

Steve Cramer

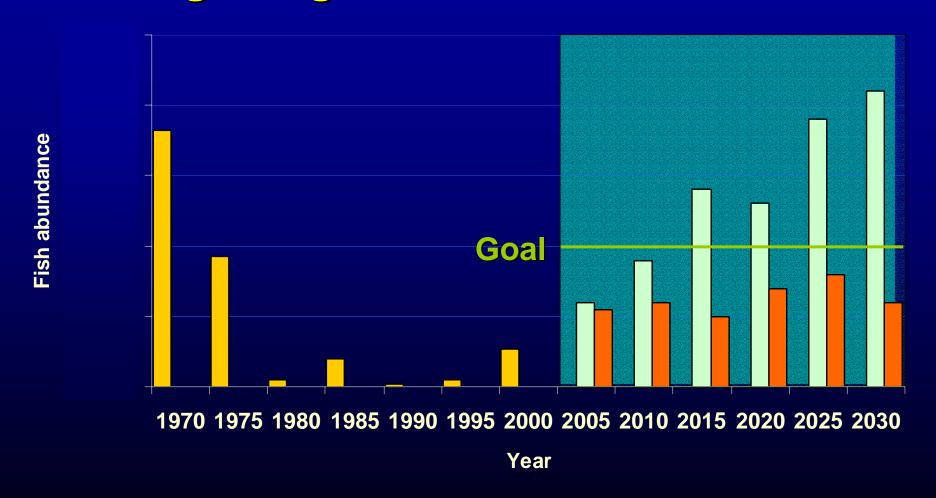
January 6, 2004

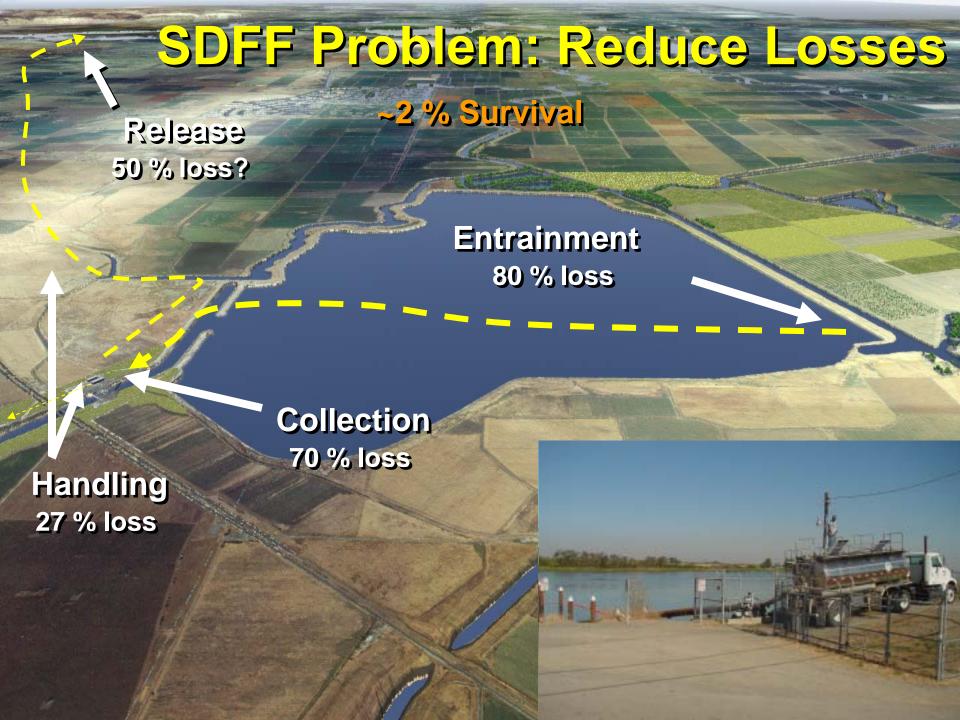
Goals for Fishery Resources

- Recover listed species
 - Delta smelt
 - Listed salmonid stocks
- Sustain harvest and escapement
 - Unlisted salmon stocks
- Double natural production (CVPIA)
 - All salmonid stocks
 - American shad
 - Sturgeon and
 - Striped bass
- Ecosystem restoration

Overall Problem:

Choose actions with the best chances of achieving fish goals with available resources





Problems at SDFF Among Four Segments





Radial Gates

Clifton Court

Outlet Canal

Trash Boom

Trash Rack

Collection



Handling



Release



Primary Bypass

Louver Arrays

Wing Gates &

Louver Bays

Secondary Bypass Louver/Screen Secondary

Bypass Manifold

Holding Tanks

Load Trucks

Lift Bucket

Haul Route

Release Pipe

Post Release

Hatcheries

Action to manage use of fish culture

Habitat

Action to manage land use

PARTETIVITY O

Integrated Modeling Framework

Life Cycle Model

Summittee

of effects at each Life Stage



Harvest

Action to manage harvesting

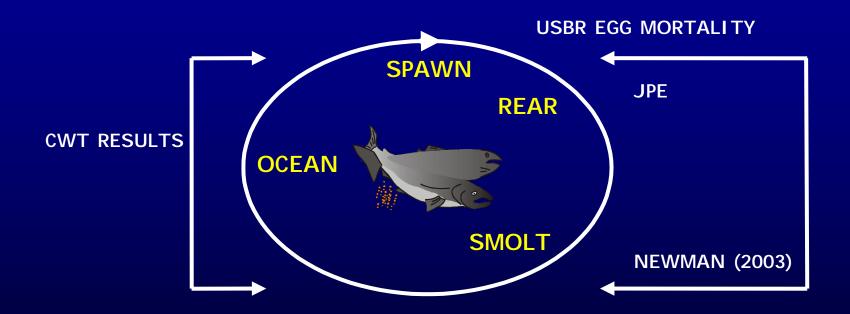
Hydro

Action to manage water use

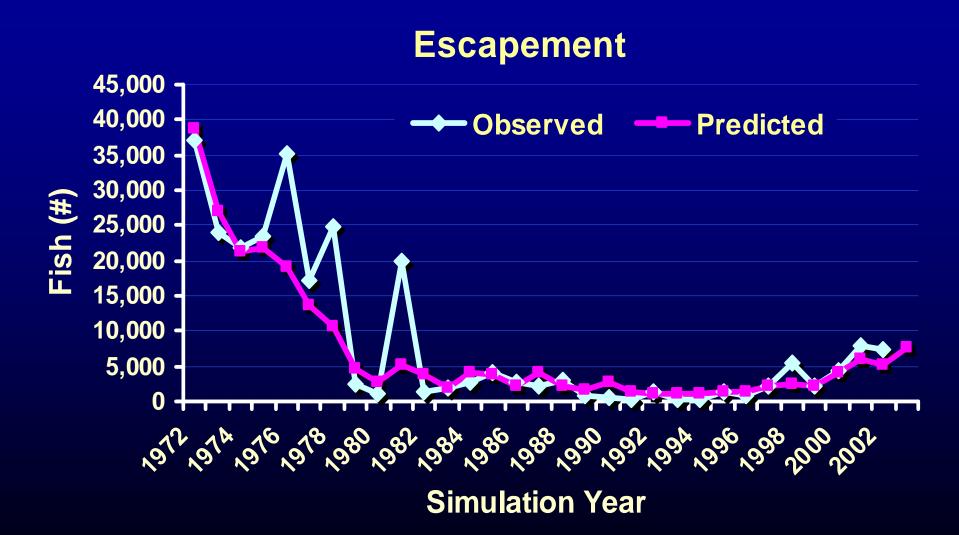
Collaboration Strategies

- Steering Committee
 - Policy-level representatives
 - From each fisheries agency
- Review existing modeling efforts first
- Build model in MS Excel
 - For easy review
 - For easy use

Winter Run Model Sub-models



Hind cast



Strategic Prioritization

- Estimate for packages of actions
 - Fish benefits
 - Costs
 - Cost-effectiveness
- Prioritize packages by cost-effectiveness
 - To prioritize packages for funding
 - To maximize fish benefits
- Support restoration investment decisions

Challenges in Achieving Fishery Goals

TUESDAY, AUGUST 27, 2002

Seattle Post Intelligencer GAO questions spending on salmon

Recovery efforts have little definite success, says federal report Federal agencies have spent more than \$3.3 billion in the past two decades to help Columbia Basin salmon and steelhead runs recover – with little conclusive success, the GAO reported ...

Where Next for the SDFFF?

Encourage

- Development of economic aspects
- Probable cost & budget estimates
- Peer review

Identify

- Options with the best chances of achieving fish goals with available resources
- Implications of these options for SDFFF
- Other policy info needs
- Schedules for SDFFF & other decisions
- Other actions or directions?