2016 SJRRP Science Meeting

Agenda

Wednesday, August 17, 2016

11:30 am	Doors open
1:00 pm – 1:45 pm	Opening Remarks **Ali Forsythe, San Joaquin River Restoration Program Manager, Bureau of Reclamation** **Tom Johnson, Restoration Administrator**

Session 1: Reintroduction of Spring-run Chinook Salmon to the San Joaquin River: Management, methods, and evaluating success

2:00 pm – 2:10 pm	*Theme Introduction* **John Netto, US Fish and Wildlife Service – Session Chair**
2:10 pm – 2:30 pm	*Reintroduction Conjunction: Restoring spring-run Chinook salmon in California's Central Valley* **Anthony J. Clemento, UC Santa Cruz and NOAA Southwest Fisheries Science Center;** John Carlos Garza, NOAA Southwest Fisheries Science Center
2:30 pm – 2:50 pm	*The 5-year status review: Implications for the Experimental Population and Wild Broodstock Collection of Central Valley Spring-run Chinook Salmon* **Rhonda Reed, National Marine Fisheries Service (NMFS);** Naseem Alston, Elif Fehm-Sullivan, Jeff Abrams, Brian Ellrott, National Marine Fisheries Service; Rachel Johnson, Ph.D., NOAA Southwest Fisheries Science Center, National Marine Fisheries Service
2:50 pm – 3:10 pm	*Interim Salmon and Conservation and Research Facility Operations for the SJRRP* **Paul Adelizi, CDFW**; Brian Erlandsen, CDFW
3:10 pm – 3:30 pm	Afternoon Break
3:30 pm – 3:50 pm	*Managing Precocious Maturation in Chinook Salmon (Oncorhynchus tshawytscha) Captive Broodstock* **Jamie McGrath-Castro, CDFW;** Paul Adelizi, CDFW; Steve Blumenshine, CSU Fresno
3:50 pm – 4:10 pm	*Near-term Spring-run Management and Monitoring Planning Using a Structured Decision Making Approach* **Joseph Kirsch, US Fish and Wildlife Service (USFWS);** Elif Fehm-Sullivan, Rhonda Reed, Erin Strange, NMFS; Pat Ferguson, Gerald Hatler, Erica Meyers, CDFW; John Netto, Kim Webb, USFWS; Don Portz, USBR
4:10 pm – 4:30 pm	*Adult Spring-run Chinook Salmon Return Monitoring* **Judith Barkstedt, US Fish and Wildlife Service (USFWS);** Joseph Kirsch, Crystal Castle, USFWS

Thursday, August 18, 2016

8:00 am	Doors open
8:30 am – 8:35 am	Day Two Welcome

Session 2: Spawning and Incubation Habitat

8:35 am – 8:45 am	*Theme Introduction and Background* **Erica Meyers, California Department of Fish and Wildlife – Session Chair**
8:45 am – 9:15 am	*Chinook Salmon Spawning within the San Joaquin River Restoration Area* **Crystal Castle, US Fish and Wildlife Service (USFWS);** Joseph Kirsch, USFWS; Judith Barkstedt, USFWS; Andy Shriver, CDFW
9:15 am – 9:35 am	*Assessing Spawning Gravel Quality within Fall-Run 2013-2015 Chinook Salmon Redds, San Joaquin River, California* **Andy J. Shriver, CA Department of Fish & Wildlife (CDFW);** Michael Bandy (CDFW); Ryan Lefler (AmeriCorps/CCC); Sony Vang (AmeriCorps/CCC); Matt Meyers (CDWR); Joseph Kirsch (USFWS)
9:35 am – 10:05 am	*Observations of Bedload Transport in a Gravel Bed Reach of the San Joaquin River using new methods, and their implications to Permeability and Hyporheic Flow* **Erin N. Bray, Ph.D. Postdoctoral Fellow, Earth Research Institute, University of California, Santa Barbara, University of California, Berkeley;** Thomas Dunne, Bren School of Environmental Science & Management, University of California, Santa Barbara
10:05 am – 10:25 am	*Bed Mobility Measurement and Flow Effectiveness* **Matthew A. Meyers, P.G., Department of Water Resources and UCSB;** Thomas Dunne, UCSB
10:25 am – 10:45 am	Morning Break

Session 3: Physical Processes Affecting River Restoration

10:45 am – 10:55 am	*Theme Introduction and Background* **Alexis Phillips-Dowell, California Department of Water Resources – Session Chair**
10:55 am – 11:15 am	*Assessing the Impacts of Abandoned Gravel Mining Pits on Peak Discharge* **Michael Brown, Tetra Tech, Inc./CDWR;** Dave Encinas, CDWR; Chad Morris, Tetra Tech, Inc.; Bob Mussetter, Tetra Tech, Inc.
11:15 am – 11:35 am	*Mechanics of the Energy Balance and Temperature Regime in Lowland Rivers, and Why the Bed Matters* **Erin N. Bray, Ph.D. Postdoctoral Fellow, Earth Research Institute, University of California, Santa Barbara;** Thomas Dunne, Bren School of Environmental Science & Management, University of California, Santa Barbara
11:35 am – 11:55 am	*Modeling Interactions of Flow, Vegetation, and Sediment for Improved Riverine System Management* **Daniel Dombroski, Bureau of Reclamation;** Blair Greimann, BOR; Yong Lai, BOR
11:55 am – 12:15 pm	*Long-term Decline of Groundwater Accretions and Incipient Seepage Losses from the Lower San Joaquin River* **Joel Herr, Systech Water Resources, Inc.;** Katie van Werkhoven, Systech Water Resources; Scott Sheeder, Systech Water Resources
12:15 pm – 1:45 pm	Lunch – on your own

Session 4: Production, Survival, and Movement of Juvenile Chinook Salmon in a Newly Wetted River: Addressing Information Needs for River Restoration

1: 45 pm – 1:55 pm	*Theme Introduction* **Donald E. Portz, Bureau of Reclamation – Session Chair**
1:55 pm – 2:15 pm	*Chinook Salmon Emigration Strategies, Diversity and Estimating Emigrant Production and Survival; Examples from the San Joaquin River Basin* **Joseph Merz, Cramer Fish Sciences/UC Santa Cruz;** Steve Zeug, Cramer Fish Sciences
2:15 pm – 2:35 pm	*Juvenile Chinook Salmon Trap and Transport, San Joaquin River, California* **Donald E. Portz, Bureau of Reclamation;** Zachary Sutphin, Bureau of Reclamation; Charles D. Hueth, Bureau of Reclamation; Shaun Root, Bureau of Reclamation; Jarod Hutcherson, Bureau of Reclamation
2:35 pm – 2:55 pm	*Juvenile Salmon Survival in the Sacramento-San Joaquin Delta* **Pat Brandes, USFWS;** Rebecca Buchanan, University of Washington
3:00 pm – 3:20 pm	Afternoon Break
3:20 pm – 3:40 pm	*Changing Needs: Cover Requirements, Ontogeny, and the Stream Continuum* **Katie McElroy, UC Santa Cruz;** Joseph Merz, UC Santa Cruz
3:40 pm – 4:00 pm	*Rethinking Temperature Regimes Required for San Joaquin River Chinook Salmon: Evidence for a 'New Normal'* **Steve Blumenshine, CSU-Fresno;** Taylor Spaulding, CSU-Fresno
4:00 pm – 6:00 pm	**Poster Presentations**

Friday, August 19, 2016

8:00 am	Doors open
8:30 am – 8:45 am	Day 3 Welcome
8:45 am – 9:15 am	**Project Update – Channel and Floodplain Design for the Mendota Pool Compact Bypass** Rebecca Kallio, Bureau of Reclamation; Blair Greimann, Bureau of Reclamation; Scott O'Meara, Bureau of Reclamation

Session 5: Multi-Benefit Projects on Floodplains: Incorporating Ecological and Economic Benefits

9:15 am – 9:25 am	*Theme Introduction* **Katrina Harrison, Bureau of Reclamation – Session Chair**
9:25 am – 9:45 am	*Multi-benefit Weed Control: The San Joaquin River Invasive Species Management and Jobs Creation Project* **Jeff Holt, River Partners;** Heyo Tjarks, River Partners; Stephen Sheppard, River Partners; Jake Salimbene, San Joaquin River Parkway and Conservation Trust; Sharon Weaver, San Joaquin River Parkway and Conservation Trust
9:45 am – 10:05 am	*Nitrate Transformations During Simulated Flooding of Restored Floodplain Soils* **Calla Schmidt, University of San Francisco;** Beth Hoagland, Pennsylvania State University; Tess Russo, Pennsylvania State University
10:05 am – 10:25 am	*Chinook Salmon Rearing: Variation in Growth Related to Habitat Type Along the Lower San Joaquin River* **Steve Zeug, Cramer Fish Sciences/UC Santa Cruz;** Joseph Merz and Kirsten Sellheim, Cramer Fish Sciences
10:25 am – 10:45 am	Morning Break
10:45 am – 11:05 am	*Furs, Feathers, Fins, and Floods: Multi-Benefit Restoration Designs Along the San Joaquin River* **Heyo Tjarks, River Partners**
11:05 am – 11:25 am	*Multi-Benefit Flood Planning in Firebaugh* **Eric Tsai, California Department of Water Resources;** Anna Fock, DWR; Katrina Harrison, Bureau of Reclamation
11:25 am – 11:45 am	*The Knaggs Ranch Studies – Rearing Salmon on an Experimental Agricultural Floodplain in the Yolo Bypass* **Carson Jeffres, UC Davis Center for Watershed Sciences**
11:45 am – 12:15 pm	Wrap up and Concluding Remarks