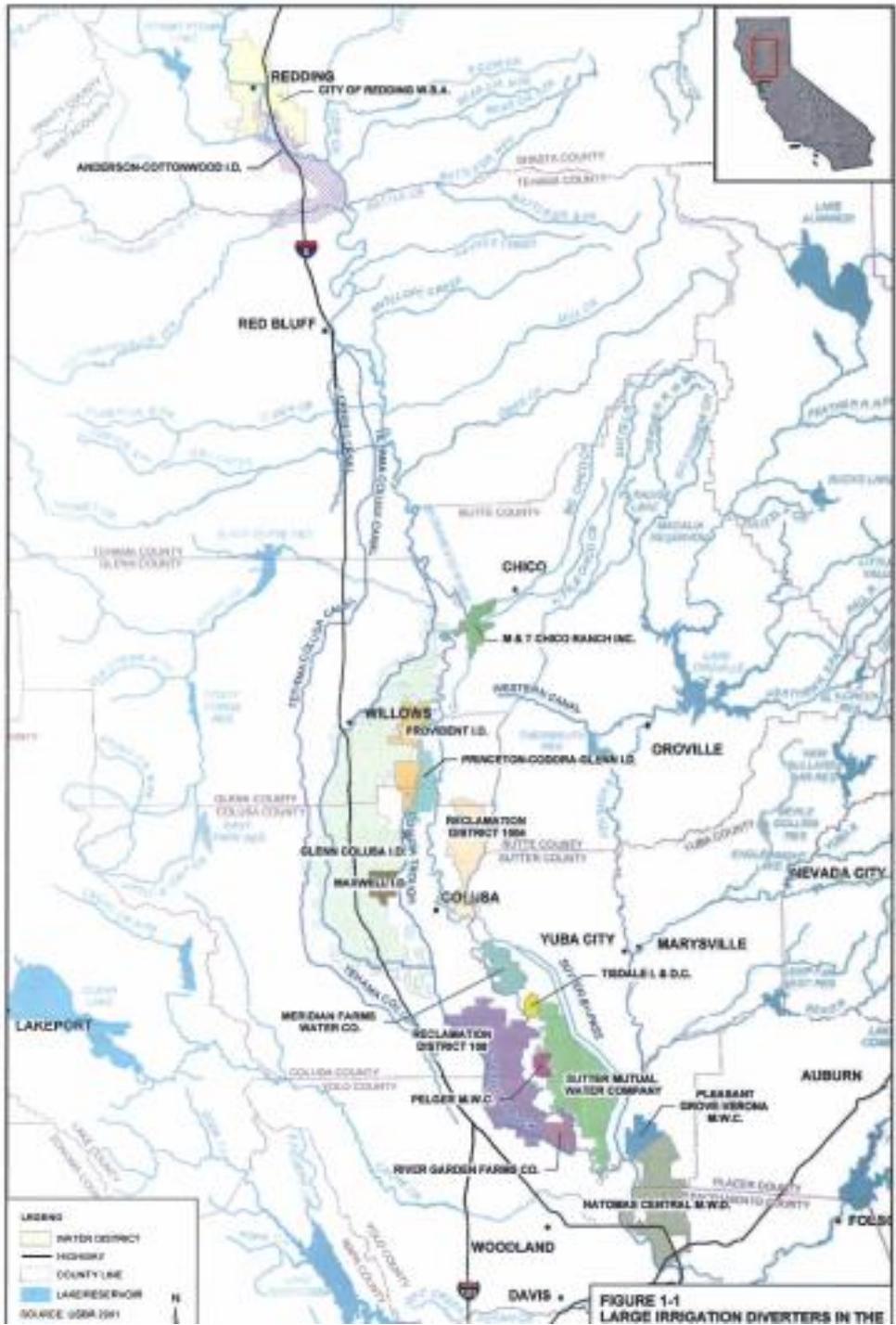


Tehama County Water Dialogue

April 30, 2015





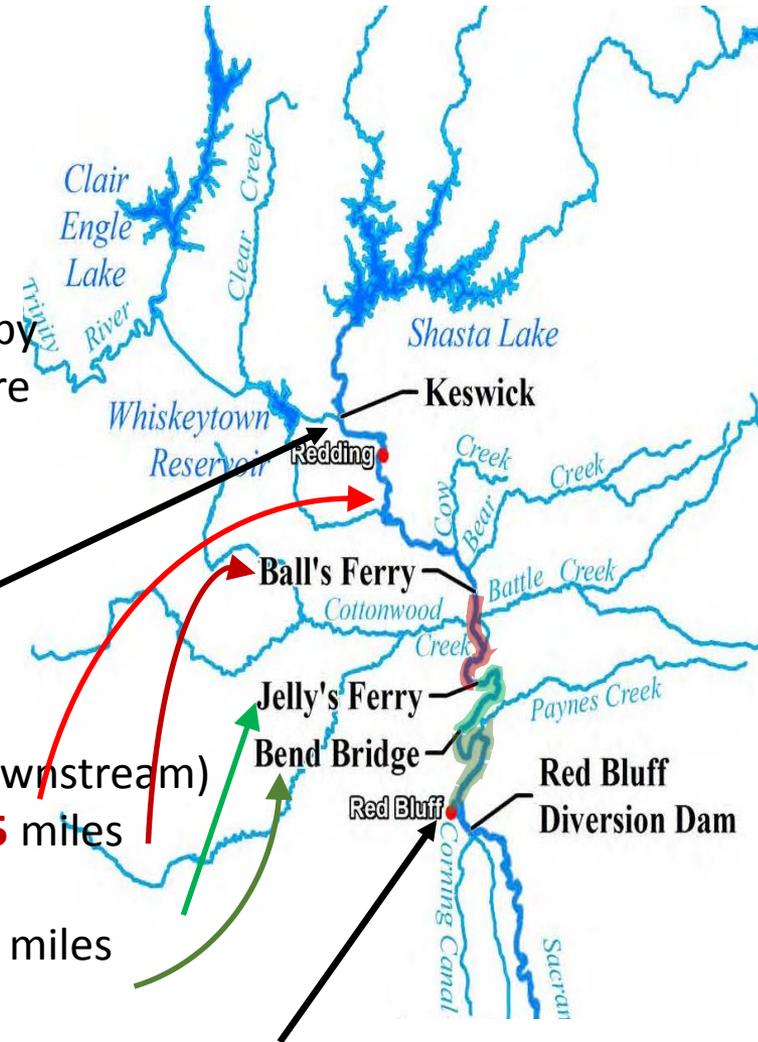
Upper Sacramento River System Water Temperature Operations

- Targets established annually by Sacramento River Temperature Task Group (SRTTG)

Keswick (RM 300.9)

Temperature Targets

- Clear Creek, RM 261 (**13** miles downstream)
- Ball's Ferry Bridge, RM 274.85 (**25** miles downstream)
- Jelly's Ferry Bridge, RM 265.9 (**35** miles downstream)
- Bend Bridge, RM 256.33 (**44** miles downstream)
- Red Bluff Diversion Dam, RM 241.92 (**58** miles downstream)



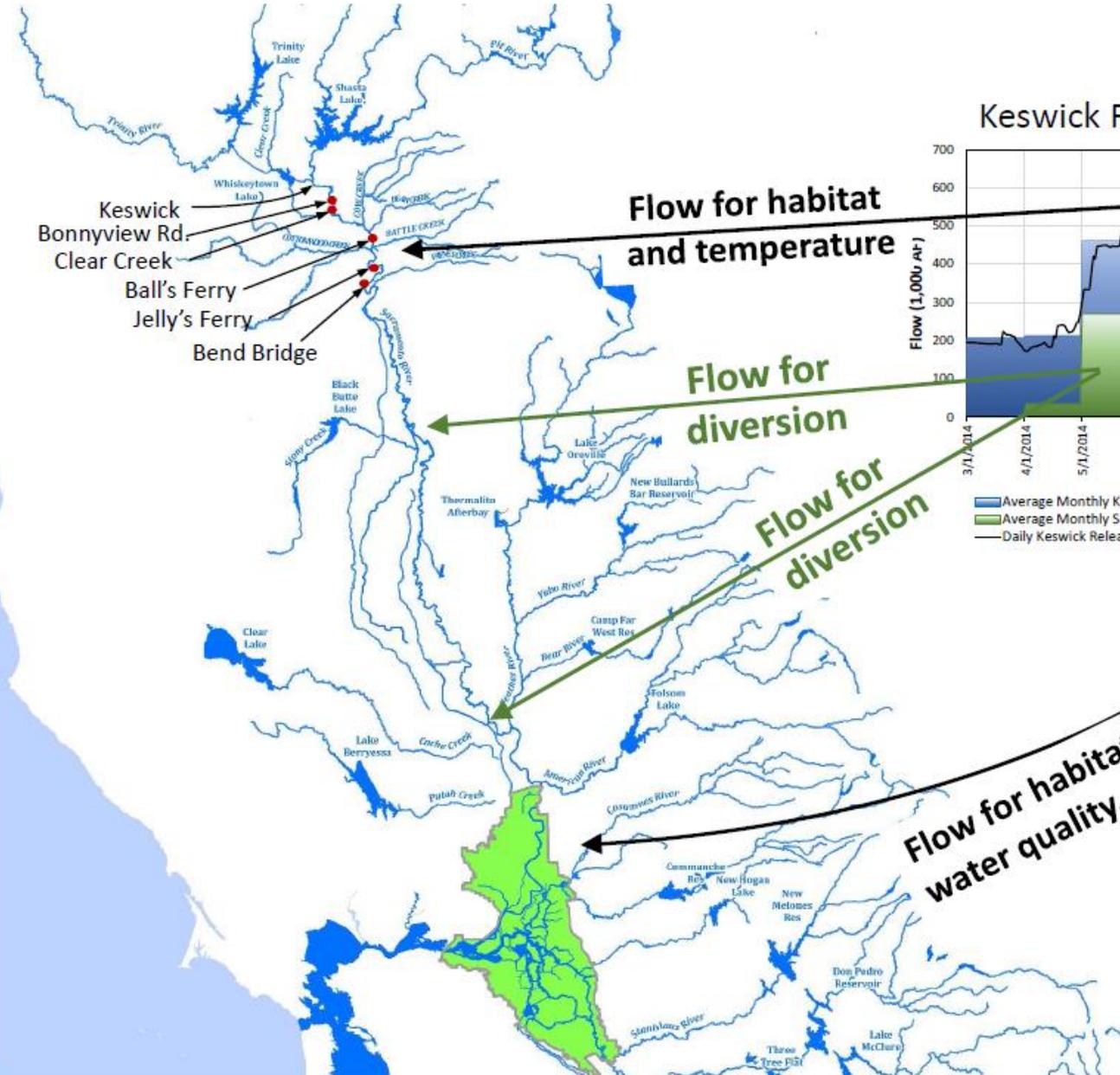


2014 Operations

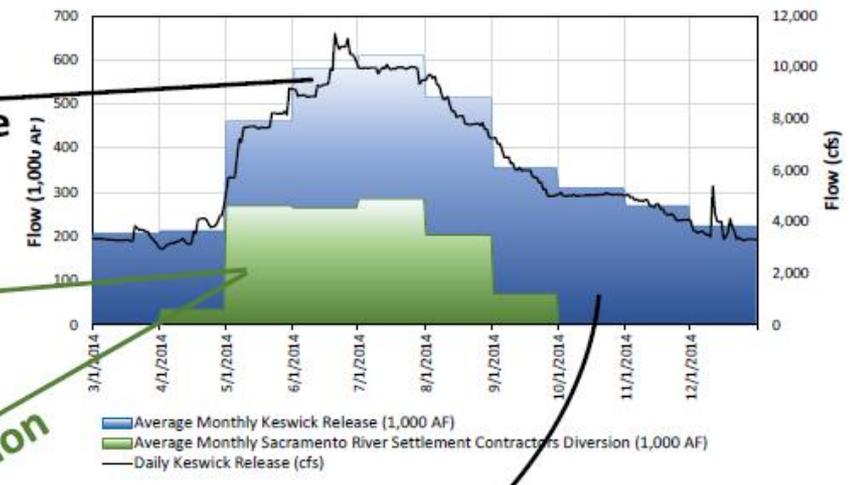
- Big Concerns
 - Drought Year
 - 2.5 MAF max fill in Lake Shasta
 - Temperature Management for Winter Run
 - Shasta Critical Year – 75% water supply

- Settlement Contractors Response
 - SC's Delay Diversions
 - 113,000 AF water transfers (50-50 fallow/gw)
 - Implement salmon restoration projects
 - Project water increases from \$30 to \$70/af

Uses of Sacramento River Flow at Keswick

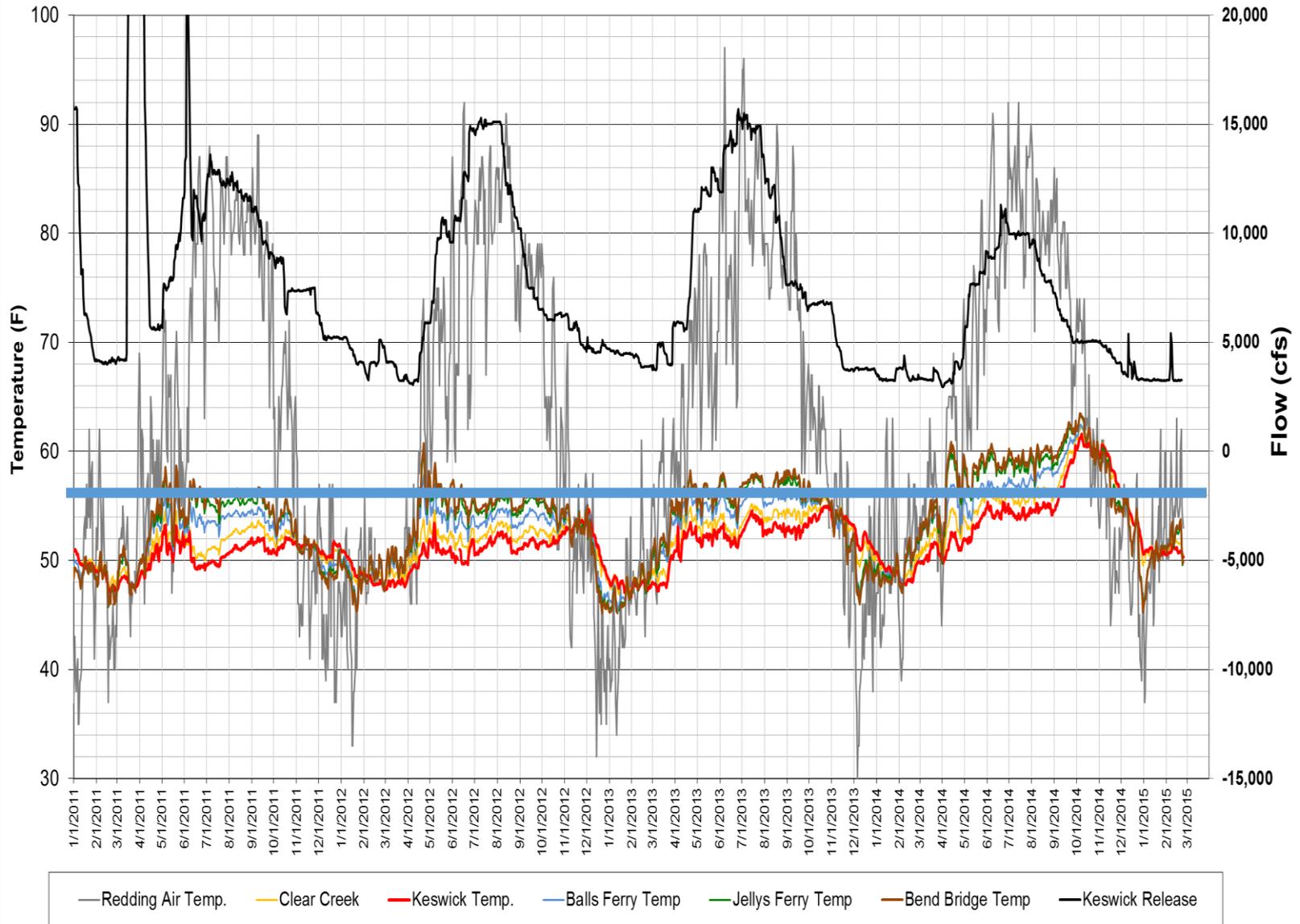


Keswick Release and SRSC Diversion



Flow for habitat, water levels, water quality, and Delta needs

Upper Sacramento River Temperature and Flow



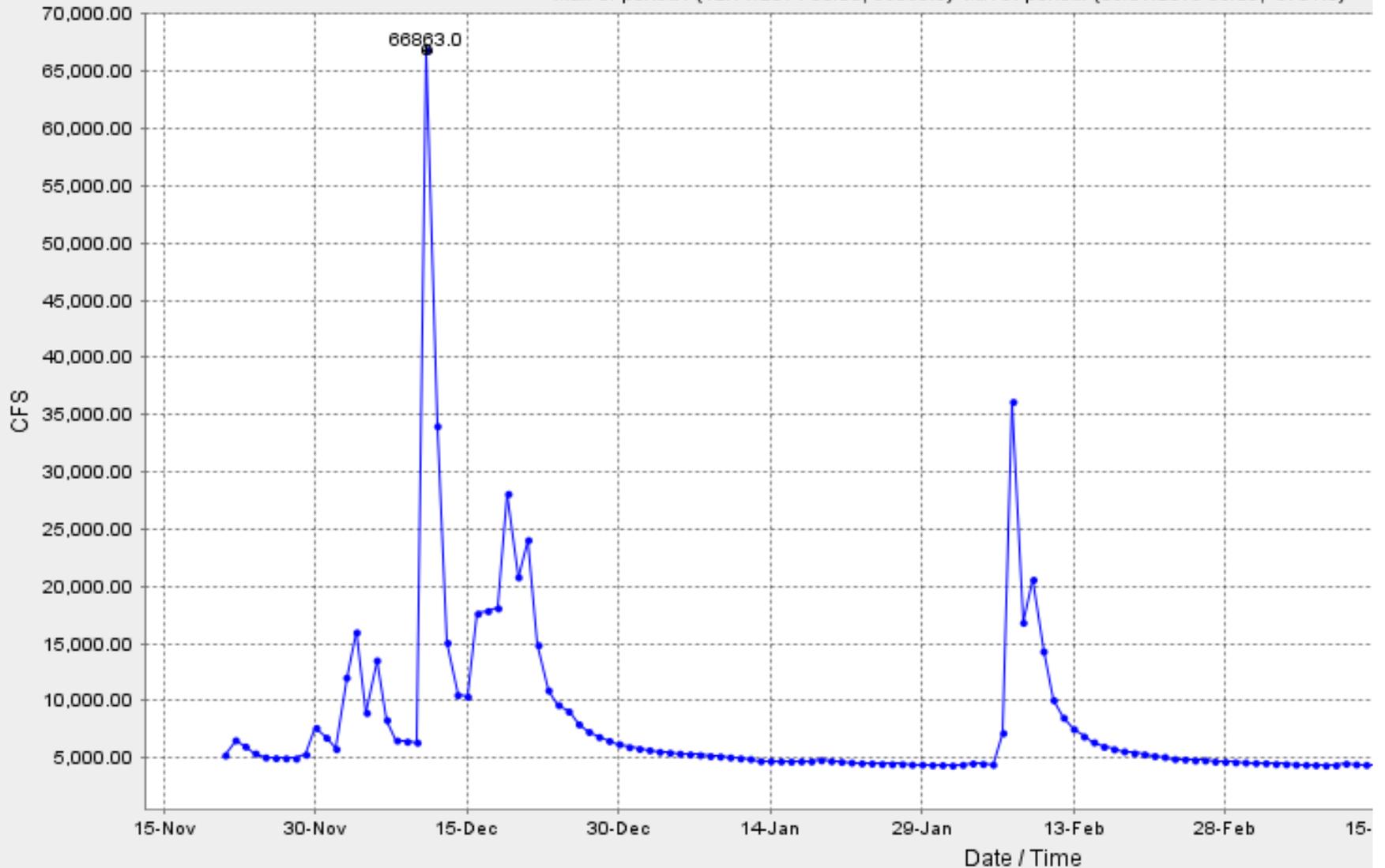
“5% Survived Past Red Bluff”



SACRAMENTO RIVER AT BEND BRIDGE (BND)

Date from 11/20/2014 21:21 through 04/29/2015 21:21 Duration : 159 days

Max of period : (12/11/2014 00:00, 66863.0) Min of period : (03/31/2015 00:00, 3701.0)



— FLOW, MEAN DAILY - CFS (6302)

2015 Operational Concerns

- Critical Drought Year
- 2.8 MAF max fill in Lake Shasta
- 5% winter run survival – fish agency intervention
- SWRCB concerned about 2015 = 2014
- Shasta Critical Year – 75% water supply
- Shasta being burdened to meet all demands in the system, instream flow, outflow, delta water users, etc.

2015 Settlement Contractor Response

- Develop a 2015 delivery pattern, more stringent than 2014
- Worked with Reclamation on new Shasta operations and temperature plan
- Increased water transfers to 220,000 AF (65/35 fallow-gw)
- Operate additional wells, coordinate with refuges
- Agree to additional restoration projects
- Project water increases to \$120/af

Table ES-2. Potential Sellers (Upper Limits)

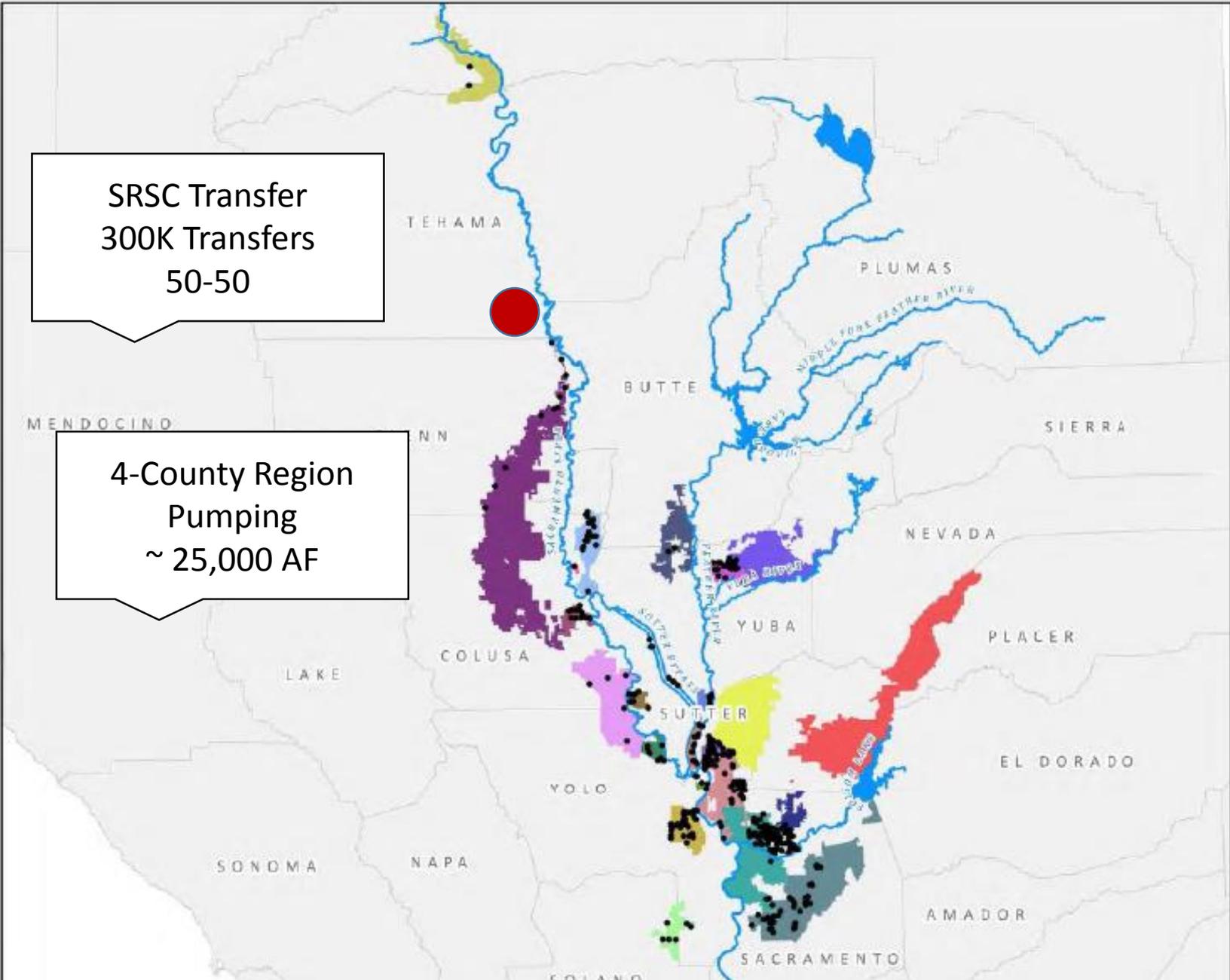
Water Agency	Maximum Potential Transfer
Sacramento River Area of Analysis	
Anderson-Cottonwood Irrigation District	5,225
Conaway Preservation Group	35,000
Cranmore Farms	8,000
Eastside Mutual Water Company	2,230
Glenn-Colusa Irrigation District	91,000
Natomas Central Mutual Water Company	30,000
Pelger Mutual Water Company	3,750
Pleasant Grove-Verona Mutual Water Company	18,000
Reclamation District 108	35,000
Reclamation District 1004	17,175
River Garden Farms	9,000
Sycamore Mutual Water Company	20,000
Te Velde Revocable Family Trust	7,094
American River Area of Analysis	
City of Sacramento	5,000
Placer County Water Agency	47,000
Sacramento County Water Agency	19,000
Sacramento Suburban Water District	30,000
Yuba River Area of Analysis	
Browns Valley Irrigation District	8,100
Cordua Irrigation District	12,000
Feather River Area of Analysis	
Butte Water District	17,000
Garden Highway Mutual Water Company	14,000
Gilsizer Slough Ranch	3,900
Goose Club Farms and Teichert Aggregates	10,000
South Sutter Water District	15,000
Tule Basin Farms	7,320
Merced River Area of Analysis	
Merced Irrigation District	30,000
Delta Region Area of Analysis	
Reclamation District 2068	7,500
Pope Ranch	2,800
Total	511,094

300K
Sacramento Diverters

90K
American River Diverters

70K
Feather River Users

40K AF
Delta and SOD



SRSC Transfer
300K Transfers
50-50

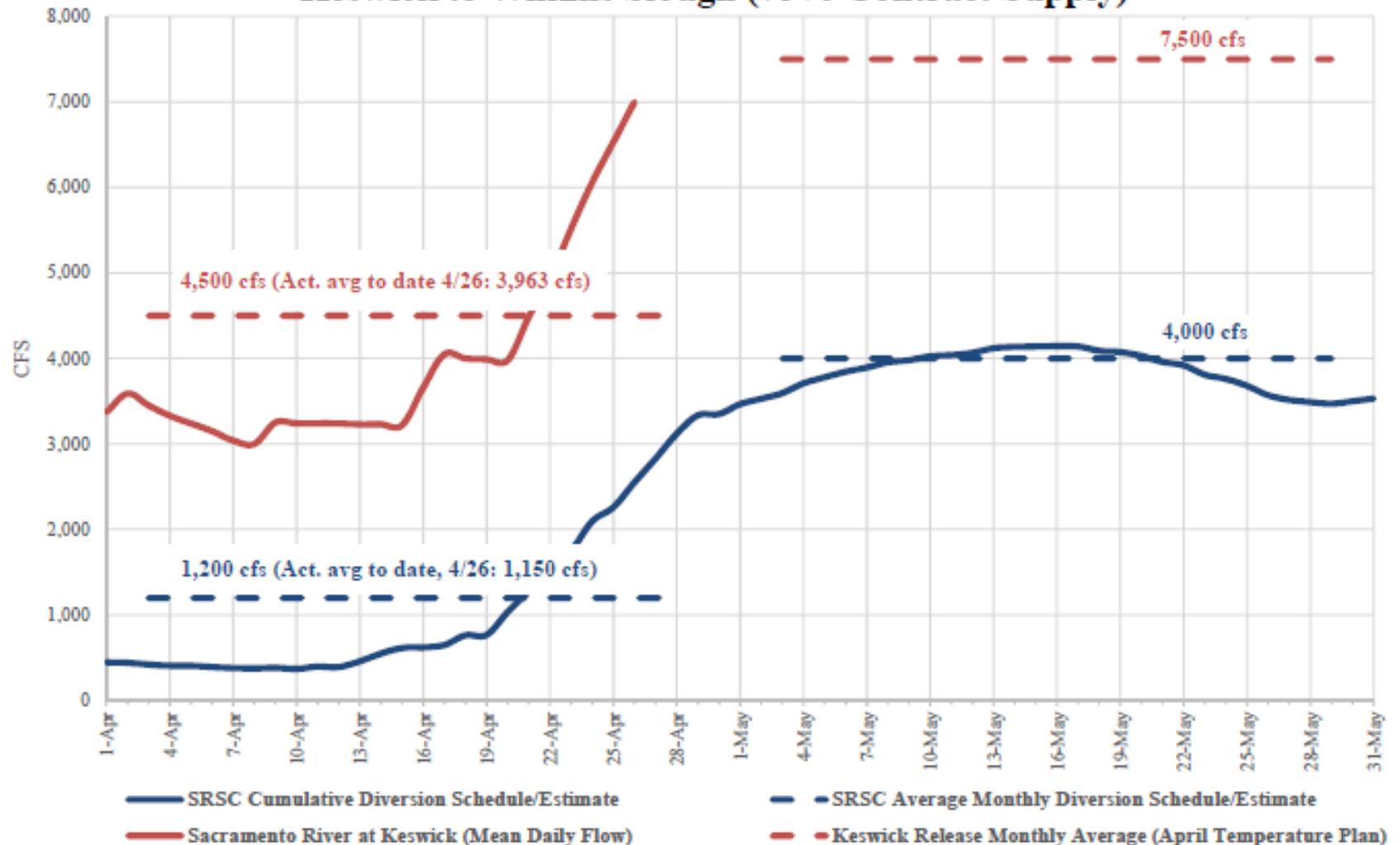
4-County Region
Pumping
~ 25,000 AF

State, Federal Agencies and Sacramento River Settlement Contractors Agree on Framework for Water Operations in Fourth Year of Drought

SACRAMENTO, Calif. – Federal and state agencies along with Sacramento River Settlement Contractors (SRSCs) agreed this week on an integrated framework of actions for Central Valley Project/State Water Project operations for mid-April through November. The actions will flexibly manage and operate the system to serve multiple beneficial purposes that include water for cities and rural communities, farms, fish and wildlife and their habitats in the Sacramento Valley. The suite of actions will also help provide water for areas of the state that are in dire need of additional water supplies.

Agencies involved in developing the plan include the U.S. Bureau of Reclamation, which supplies the SRSC with water from the federal Central Valley Project, the California Department of Water Resources, California State Water Resources Control Board, National Marine Fisheries Service, U.S. Fish and Wildlife Service, and the California Department of Fish and Wildlife.

Sacramento River Settlement Contractors Estimated Cumulative 2015 Diversions Keswick to Wilkins Slough (75% Contract Supply)



Note: Diversions are based on estimated schedules from the 9 major Sacramento River Settlement Contractors upstream of Wilkins Slough

Part of Sacramento River closed to fishing

POSTED: 04/28/15, 10:06 AM PDT | UPDATED: 1 DAY AGO 0 COMMENTS

The Associated Press

More than five miles of critical spawning habitat on the Sacramento River above Redding has closed to all fishing.

An emergency regulation closing 5.5 miles above the Highway 44 bridge in Redding went into effect Monday.

The recommendation was made by the state Fish and Game Commission and approved by the Office of Administrative Law Monday.

The closure will protect critical spawning habitat and eliminate stress or hooking deaths of winter-run salmon by anglers. Though salmon fishing was not allowed in that stretch, it was a popular spot for trout fishing.

It is unusual for a state to propose even stricter guidelines on a listed species than required by the federal Endangered Species Act. However, fish and wildlife scientists say

Legend

Habitat Enhancement Activity

- Gravel Berm
- Equipment Paths
- Lateral Berm/ Excess Relocation Sites
- Gravel Excavation/ Redistribution Area

Equipment Ingress-Egress

- Equipment Ingress-Egress Route
- ▨ Equipment Staging Area
- Equipment Loading Zone
- Equipment Loading Zone



Painter's Riffle Vicinity Map

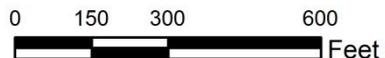


Exhibit A: Habitat Enhancement Detail

Painter's Riffle Anadromous Fish Habitat Enhancement Project





View of Painter's Riffle from Highway 44 bridge



California Department of Fish and Wildlife personnel removing fish from job site using seine nets



CDFW personnel using seine nets to remove fish



Beginning of gravel removal



Construction of temporary roadways for equipment to operate concurrently



Bulldozer setting riffle invert to grade using laser level



Completed Painter's Riffle
Looking upstream from end of riffle



Pre-construction and post-construction photos



