

APPENDIX A

SUMMARY STEELHEAD PROGRAMS IN CALIFORNIA'S CENTRAL VALLEY

Table 1. Adult steelhead monitoring programs in the Central Valley.

Stream	Target Species	Monitoring Method	Variables Measured	Agency	Contact
Sacramento, American, Feather, Yuba, San Joaquin, and Mokelumne Rivers	All Chinook runs, steelhead	Angler Survey	Angler effort and harvest	CDFG	Rob Titus (916) 227-6390
All anadromous waters in the state	Steelhead	Steelhead report card	Angler effort and harvest	CDFG	Terry Jackson (916) 327-8855
Feather, American, and Mokelumne Rivers	Steelhead	Hatchery returns	Abundance, life history patterns	CDFG	Rob Titus (916) 227-6390
Feather, American, and Mokelumne Rivers	Steelhead	Hatchery returns	Escapement	CDFG	Judy Urrutia (916) 445-3462
Upper Sacramento River	All Chinook runs, steelhead	Video	Abundance, immigration timing	CDFG	Doug Killam (530) 527-8893
Old Cow, South Cow, Beegum, Thomes, Paynes, Antelope, Mill, and Deer Creeks	Steelhead	Snorkel surveys	Presence/absence	CDFG	Doug Killam (530) 527-8893
Clear Creek	All Chinook runs, steelhead	Redd survey	Abundance, escapement	USFWS	Matt Brown (530) 527-3043
Battle Creek	All Chinook runs, steelhead	Hatchery returns, fish trap, video monitoring	Abundance, escapement, migration timing	USFWS	Matt Brown & Kevin Niemela (530)527-3043
Antelope Creek	Spring run Chinook, steelhead	Video	Abundance, escapement, migration timing	CDFG	Doug Killam (530) 527-8893

Table 1. Continued.

Stream	Target Species	Monitoring Method	Variables Measured	Agency	Contact
Mill Creek	Spring run Chinook, steelhead	Video	Abundance, escapement, migration timing	CDFG	Doug Killam (530) 527-8893
Butte Creek	Spring run Chinook, steelhead	Snorkel surveys	Escapement, presence/absence	CDFG	Tracy McReynolds (530) 895-5111 & Clint Garman (530) 895-5110
Feather River	Steelhead	Redd survey	Abundance, escapement	DWR	Jason Kindopp (530) 534-2381
Feather River	Steelhead, spring and fall-run Chinook	Trap and weir	Immigration timing, escapement, abundance	DWR	Jason Kindopp (530) 534-2381
Yuba River	All Chinook runs, steelhead	Video and Vaki	Migration timing, escapement, abundance	CDFG	Duane Massa (530) 895-5005
American River	Fall-run Chinook, steelhead	Snorkel survey, redd survey	Distribution, density	USFWS	John Hannon (916) 978-5524
Mokelumne River	Fall-run Chinook, steelhead	Redd survey	Escapement, habitat use	EBMUD	Michelle Workman (209)365-1486
Mokelumne River	Fall-run Chinook, steelhead	Video, fish trap	Escapement, immigration timing, passage estimates	EBMUD	Michelle Workman (209)365-1486
Stanislaus River	Fall-run Chinook, steelhead	Video and Vaki, weir and fish trap	Escapement, immigration timing, passage estimates	USFWS, FISHBIO	John Wikert (209) 334-2968
Tuolumne River	Fall-run Chinook, steelhead	Video and Vaki, weir and fish trap	Escapement, immigration timing, passage estimates	TID, FISHBIO	Michele Palmer (530) 343-2101

Table 2. Juvenile steelhead monitoring programs in the Central Valley.

Stream	Target Species	Monitoring Method	Variables Measured	Agency	Contact
Mainstem Sacramento River	All Chinook runs, steelhead	Rotary screw trap	Abundance, outmigrant timing	USFWS	Bill Poytress (530)527-3043
Mainstem Sacramento River	All Chinook runs, steelhead	Rotary screw trap	Abundance, outmigrant timing	CDFG	Diane Coulon (530)865-9331
Clear Creek	All Chinook runs, steelhead	Rotary screw trap	Abundance, outmigrant timing	USFWS	Matt Brown (530)527-3043
Battle Creek	All Chinook runs, steelhead	Rotary screw trap	Abundance, outmigrant timing	USFWS	Matt Brown (530)527-3043
Mill Creek	Spring-run Chinook, steelhead	Rotary screw trap	Abundance, outmigrant timing	CDFG	Colleen Harvey Arrison (530)527-9490
Mill Creek	Spring and fall-run Chinook, steelhead	Electrofishing, seining	Abundance, emergence timing	CDFG	Colleen Harvey Arrison (530)527-9491
Deer Creek	Spring-run Chinook, steelhead	Rotary screw trap	Relative abundance, outmigrant timing	CDFG	Colleen Harvey Arrison (530)527-9490
Deer Creek	Spring and fall-run Chinook, steelhead	Electrofishing, seining	Abundance, emergence timing	CDFG	Colleen Harvey Arrison (530)527-9491
Stony Creek	All Chinook runs, steelhead	Beach seine, fyke net	Presence/absence	USBR	Richard Corwin (530)528-0512
Butte Creek	Spring-run Chinook, steelhead	Rotary screw trap	Abundance, outmigrant timing	CDFG	Tracy McReynolds (530) 895-5111 Clint Garman (530) 895-5110
Lower Sacramento River	All Chinook runs, steelhead	Rotary screw trap	Abundance, outmigrant timing	CDFG	Robert Vincik (916) 227-6842

Table 2. Continued.

Stream	Target Species	Monitoring Method	Variables Measured	Agency	Contact
Lower Sacramento River	All Chinook runs, steelhead	Kodiak/mid-water trawl	Spatial / temporal distribution, outmigration timing	USFWS	Paul Cadrett (209)946-6400
Sacramento River and Feather River	Winter-run and spring-run Chinook, steelhead	Fyke nets and filtration boxes on diversions	Diversion mortality	NRS	Dave Vogel (530) 527-9587
Feather River	Fall and Spring-run Chinook, steelhead	Rotary screw trap	Abundance, outmigrant timing	DWR	Jason Kindopp (530) 534-2381
Feather River	Steelhead	Snorkel, electrofishing, enclosures	Distribution, abundance, habitat use, growth	DWR	Jason Kindopp (530) 534-2381,
Yuba River	Fall-run, spring-run Chinook, steelhead	Rotary screw trap	Abundance, outmigrant timing	CDFG	Duane Massa (530) 895-5005
American River	Fall-run Chinook, steelhead	Rotary screw trap	Abundance, outmigrant timing	CDFG	Mike Healey (916) 358-4334
American and Mokelumne Rivers	Steelhead	Angling, seining, PIT tagging, acoustic tagging, electrofishing	Environmental variables related to fish emigration	CDFG, UCSC, NMFS	Rob Titus (916) 227-6390
Putah Creek	All species present	Electrofishing	Fish assemblages, environmental variables	UCD	Peter Moyle (530) 752-6355
Lower Sacramento River, Lower San Joaquin River, North Delta, Central Delta, South Delta, San Francisco/San Pablo Bays	All Chinook runs	Beach seine	Abundance, outmigrant timing, recovery of marked smolts	USFWS	Paul Cadrett (209)946-6400
Suisun Bay	All Chinook runs	Mid-water trawl	Abundance, outmigrant timing, recovery of marked smolts	USFWS	Paul Cadrett (209) 946-6400

Table 2. Continued.

Stream	Target Species	Monitoring Method	Variables Measured	Agency	Contact
Mokelumne River	Fall-run Chinook, steelhead	Seining and electrofishing	Distribution, abundance	EBMUD	Michelle Workman (209)365-1486
Mokelumne River	Fall-run Chinook, steelhead	Rotary screw trap	Abundance outmigrant timing	EBMUD	Michelle Workman (209)365-1486
Mokelumne River	Steelhead	Acoustic tagging	Migration timing and paths, residency rates	EBMUD	Jim Smith (209) 365-1467
San Joaquin River	Fall-run Chinook, steelhead	Kodiak trawl at Mossdale	Abundance outmigrant timing	CDFG	Tim Heyne (209) 853-2533
Calaveras River	Fall-run Chinook, steelhead	Rotary screw trap	Abundance outmigrant timing	FISHBIO	Michele Palmer (530) 343-2101
Stanislaus River	Fall-run Chinook, steelhead	Rotary screw trap	Abundance outmigrant timing	FISHBIO	Michele Palmer (530) 343-2101
Stanislaus River	Fall-run Chinook, steelhead	Rotary screw trap	Abundance outmigrant timing	USFWS CFS	Clark Watry (209) 847-7786
Stanislaus River	Fall-run Chinook, steelhead	Snorkel survey	Spatial/temporal distribution, density	USBR	John Hannon (916)978-5524
Stanislaus River	Chinook and steelhead	Snorkel (primary) seining, electrofishing	Abundance, environmental variables	USBR	Mark Bowen (303) 445-2222
Tuolumne River	Fall-run Chinook, steelhead	Rotary screw trap	Abundance, outmigrant timing, recovery of marked smolts	TID	Tim Ford (209)883-8275
Tuolumne River	Fall-run Chinook, steelhead	Beach Seining, snorkel surveys	Abundance, outmigrant timing, recovery of marked smolts	TID	Tim Ford (209)883-8275

Table 2. Continued.

Stream	Target Species	Monitoring Method	Variables Measured	Agency	Contact
Merced River	Fall-run Chinook, O. mykiss	Rotary screw trap	Abundance, outmigrant timing, presence and absence	NRS, MID	Dave Vogel (530) 527-9587
Merced River	Fall-run Chinook, O. mykiss	Rotary screw trap	Abundance, outmigrant timing, presence/absence	USFWS CFS	John Montgomery (209) 847-7787
Merced River	Fall-run Chinook, O. mykiss	Rotary screw trap	Abundance, outmigrant timing	CDFG	Dennis Blakeman (209) 853-2533
Merced River	Fall-run Chinook, O. mykiss, all other species present	Beach seine, electrofishing, minnow traps	Species richness, species diversity, habitat use	UCSB	Steve Zeug (805) 893-4989