



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE

Southwest Region
501 West Ocean Boulevard, Suite 4200
Long Beach, California 90802- 4213

JAN 29 2007

In response refer to:
151422SWR2006SR00725:JTJ

Mr. Neil Manji
Fisheries Branch Chief
California Department of Fish and Game
830 S Street
Sacramento, California 95814

Dear Mr. Manji:

This letter is in response to the California Department of Fish and Games' (CDFG) November 22, 2006, request submitted to NOAA's National Marine Fisheries Service (NMFS) to extend the Endangered Species Act (ESA) 4(d) research limit take exemption for state conducted or overseen research and monitoring of threatened salmonids in California. As you are aware, on December 29, 2005, NMFS granted take exemption to CDFG for research activities conducted in 2006 pursuant to the 4(d) research limit of the ESA. The take exemption for CDFG's 2006 Program expired on December 31, 2006. The research activities, collectively known as the Program, are projects conducted by CDFG employees and recipients of CDFG scientific collector permits, which may take threatened anadromous salmonids in California. CDFG's letter requests to extend the 4(d) research limit take exemption to December 31, 2007.

The 2007 Program affects three ESA-listed salmon Evolutionarily Significant Units (ESUs): Southern Oregon/Northern California Coasts coho salmon ESU, California Coastal Chinook salmon ESU and Central Valley spring-run Chinook salmon ESU; and four ESA-listed steelhead Distinct Population Segments (DPSs); Northern California steelhead DPS, Central California Coast steelhead DPS, South-Central California Coast steelhead DPS, and Central Valley steelhead DPS. In addition, a few projects in the Central Valley may affect the southern DPS of North American Green Sturgeon.

The activities in the 2007 Program are very similar to research and monitoring activities implemented in the 2004, 2005, and 2006 Programs. The 2007 Program includes a total of 100 projects throughout California: 56 conducted by CDFG researchers, and 44 conducted by researchers with a CDFG scientific collectors permit. Seventy seven of projects have research and monitoring activities in coastal watersheds, and 36 of the projects have activities in Central Valley watersheds (includes three projects that have research activities in coastal areas and in the Central Valley). Nineteen projects that were in the 2006 Program have either ended, or have



been issued or will soon be issued a section 10(a)(1)(A) research permit, so the projects have been removed from the Program. A total of 23 new projects have been added to the 2007 Program, 51 projects have been modified, and 26 projects are unchanged from 2006 approved activities. NMFS has determined that take prohibitions under section 9 of the ESA will not apply to research activities specified in the 2007 Program provided that the research activities are conducted in accordance with the Program as submitted and in accordance with the conditions and requirements enclosed with this letter (see Enclosure 1).

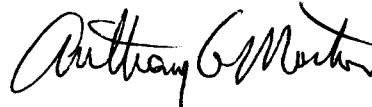
All submitted modifications, including project deletions and additions, have been made to the 2007 Program as requested. Enclosure 2 is a list of projects that are approved for the 2007 Program. NMFS has determined that the following projects will not be approved for inclusion in the 2007 Program for the reasons described below:

1. The following five projects submitted by Hagar Environmental Sciences is not approved for inclusion in the 2007 Program because NMFS is currently processing a section 10(a)(1)(A) permit to authorize the research activities: *South-Central California Coast Steelhead Distribution and Abundance Surveys*, *Central California Coast Steelhead Distribution and Abundance Surveys*, *Salinas River Steelhead Monitoring*, *Santa Cruz County Population Assessments*, and *Arroyo Grande Creek Steelhead Distribution and Abundance Survey*.
2. The *Trinity River Tributaries Winter-run Steelhead Spawning Survey*, submitted by Larry Hanson (CDFG) is not approved for inclusion in the 2007 Program because NMFS has determined that take authorization is not warranted for this project.
3. The *Sport Fish Restoration Project 22 Stream and Lake Improvement*, submitted by Alan Grass (CDFG) is not approved for inclusion in the 2007 Program because NMFS has determined that take for this project is already authorized under the biological opinion for Regional General Permit 12 that authorizes take associated with salmonid habitat restoration projects funded or implemented by CDFG.
4. The *Alameda Creek Trout Restoration*, submitted by the San Francisco Public Utilities Commission is not approved for inclusion in the 2007 Program because NMFS has determined that there will be no take of ESA-listed steelhead due to the location of the project.
5. The *Santa Cruz County Stream Habitat & Juvenile Salmonid Sampling Program*, submitted by Scott Cressey is not approved for inclusion in the 2007 Program because NMFS has determined that the activities proposed for this project are already authorized under the projects submitted by the County of Santa Cruz.

6. The *Sherman Island Setback Levee Habitat Enhancement Project Fish Monitoring Program*, submitted by Stillwater Sciences is not approved for inclusion in the 2007 Program because NMFS is currently processing a section 10(a)(1)(A) permit to authorize the research activities.
7. The *Central California Coast Resource Assessment Program's Lagoon Project -- Coastal Biodiversity Measured through Baseline Assessments of Important Lagoons in Central Coast Bioregion, Pilot Project*, submitted by Patricia Anderson (CDFG) is not approved for inclusion in the 2007 Program because NMFS was notified that project efforts have been minimized due to funding constraints, and therefore take is not anticipated to occur during 2007.

The 2007 Program will continue to strengthen research and monitoring efforts, promote the conservation of both listed and non-listed salmonid species, and streamline various ESA processes. NMFS thanks CDFG for its continued cooperation on this Program, and we look forward to working with CDFG during the 2007 Program. Please contact Mr. Jeffrey Jahn by phone at (707) 575-6097 or by email at Jeffrey.Jahn@noaa.gov, if you have any questions regarding this letter.

Sincerely,


~~for~~ Rodney R. McInnis
Regional Administrator

Enclosures:

1. CDFG 4(d) Limit #7 Research Program Conditions
2. Project Number, Principal Investigators, Affiliation, and Project Title for projects authorized in the 2007 CDFG 4(d) Research Program

cc: Dennis McEwan, CDFG, Sacramento
Sharon Shiba, CDFS, Sacramento
Russell Strach, NMFS, Sacramento
Michael Aceituno, NMFS, Sacramento
Irma Lagomarsino, NMFS, Arcata

Enclosure 1 - CDFG 4(d) Limit #7 Research Program Conditions

All research and monitoring projects included in CDFG's 4(d) Research Program must comply with the following conditions and requirements.

General Conditions and Operating Requirements

1. Each non-CDFG researcher must have a CDFG issued valid scientific collector permit that authorizes take of anadromous fish associated with the approved 4(d) research project. The scientific collector permit must be in the possession of the researcher while conducting the research activities.
2. Individual project authorization in the 2007 Program is contingent upon submission of an annual report summarizing research activities conducted in 2006. Each researcher authorized in the 2006 Program must submit the required annual report to CDFG by the January 31, 2007, deadline. Failure to submit an adequate required annual report by the deadline may result in the project not having Federal ESA take authorization for activities conducted during the 2007.
3. Each researcher must possess a copy of the letter from NMFS to CDFG limiting take prohibitions, and must possess a copy of their project application when conducting the activities for which take of ESA-listed species is authorized. Each researcher is responsible for the actions of any individual operating under his/her specific covered project.
4. Researchers may not transfer or assign limited take to any other person(s) not designated as a cooperator under a specific project. The limit for take ceases to be in force or effect if transferred or assigned to any other person without prior approval from NMFS.
5. Each researcher must ensure that ESA-listed species are taken only by the means, in the areas, and for the purposes described in the approved 4(d) application, and as set forth in the Program under the 4(d) limit, as limited by these General Conditions and Operating Requirements.
6. Each researcher must ensure that ESA-listed species are handled carefully. Should NMFS determine that a researcher's procedure for handling ESA-listed species is no longer acceptable, the researcher must immediately cease such activity until NMFS determines a substitute procedure. Specific handling requirements are: (a) ESA-listed fish must be kept in water to the maximum extent possible during sampling and processing procedures; (b) adequate circulation and replenishment of water in holding units are required; (c) when using gear that capture a mix of species, researchers must process ESA-listed fish first to minimize the duration of handling stress; and (d) the transfer of ESA-listed fish must be conducted using a sanctuary net that holds water during transfer, whenever necessary to prevent the added stress of an out-of-water transfer.

7. Each researcher must anesthetize ESA-listed fish that are handled out-of-water when necessary to prevent injury or mortality. Anesthetized fish must be allowed to recover (*e.g.*, in a recovery tank) before being released. Fish that are simply counted must remain in water and should not be anesthetized.
8. All fish (including carcasses) must be released near their collection site. Any fish killed during the course of the activities and not retained for further analysis must be placed back in the waterbody where it was found, or they can be preserved as voucher specimens and sent to: Salmonid Genetic Repository, Southwest Fisheries Science Center, 110 Shaffer Road, Santa Cruz, California 95060, (831) 420-3903 (Chinook salmon) or Ms. Katie Perry, California Department of Fish and Game, 830 S Street, Sacramento, California 95814, (916) 445-4506 (Central Valley steelhead). All North American green sturgeon unintentionally killed during sampling activities will be preserved as voucher specimens and sent to: Mr. Bernie May, Genomic Variation Lab, Department of Animal Science, 2403 Meyer Hall, University of California, Davis, California 95616. Contact Josh Israel at University of California, Davis for preservation protocol and questions at jaisrael@ucdavis.edu or at (530) 752-6351. The need for voucher specimens and preservation protocols should be confirmed with the appropriate contact person listed above.
9. Whenever possible, researchers must use unintentional lethal takes (indirect mortalities) in place of intentional lethal takes (direct sacrifice).
10. Each researcher that uses electrofishing as a sampling technique must comply with NMFS' Backpack Electrofishing Guidelines (June 2000), available on line at <http://www.nwr.noaa.gov/ESA-Salmon-Regulations-Permits/4d-Rules/upload/electro2000.pdf>.
11. Each researcher using rotary screw traps should maintain the traps in excellent condition and properly functioning at all times.
12. Each researcher must obtain any other Federal, State, tribal, and local licenses, permits, and authorizations (including permission for access from landowners) necessary for the conduct of the activities provided for in this limit and comply with the conditions in those licenses/permits/authorizations.
13. Each researcher is required to coordinate with other co-managers and researchers to ensure that no unnecessary duplication or adverse cumulative effects to ESA-listed species occur as a result of his/her activities.
14. In cooperation with CDFG, researchers must allow any NMFS employee(s), or any other person(s) designated by NMFS, to accompany field personnel during the activities provided for in this limit. Researchers must allow such person(s) to inspect their records

and facilities if such records and facilities pertain to ESA-listed species covered by this limit or NMFS' responsibilities under the ESA.

15. NMFS may amend the provisions of this limit after reasonable notice to CDFG and the applicable researcher(s).
16. NMFS, after consulting with CDFG, may revoke an individual researcher's inclusion in this limit if the researcher's activities are not carried out in accordance with these General Conditions and Operating Requirements and the purposes and requirements of the ESA.
17. Non-listed fish shall be used as test animals whenever possible as surrogates for listed fish.
18. Researchers are required to contact the U.S. Fish and Wildlife Service (USFWS) to obtain ESA coverage for species under jurisdiction of the USFWS that may be taken during this limited research and monitoring.

Reporting Requirements

Unauthorized Take Reports

1. If a researcher should *exceed the anticipated level of take, or if circumstances indicate that such an event is imminent*, the activities must cease. Such take must be reported to NMFS as soon as possible, but no later than one week after the anticipated level of take is exceeded. The CDFG must then submit a written report to NMFS describing the circumstances of the unanticipated take. The CDFG and applicant must re-evaluate the techniques used and revise those techniques accordingly to prevent further injury or death of listed species. Pending review of these circumstances, NMFS may suspend research activities or amend this limit to allow research activities to continue.
2. If a researcher should kill, injure, or collect an ESA-listed species *not included in this specific take limit* during the conduct of research activities, the animal must be released without further handling, and such take must be reported to NMFS as soon as possible, but not later than one week after the event. The CDFG must then submit a written report to NMFS, describing the circumstances of the unanticipated take. Pending review of these circumstances, NMFS may suspend research activities or amend this limit to allow research activities to continue.

Annual Reports

CDFG must submit annual reports for covered activities documenting the results of the previous year's activities conducted under the Program. The reports shall include a detailed description of the actual take of ESA-listed species that occurred for each specific research project. In addition,

CDFG must provide a description of the populations sampled and an estimate of the proportion of each population taken as a result of their Program including efforts being made to prevent the overutilization of small populations. Limits for take prohibitions for subsequent years' research and monitoring activities will be contingent upon NMFS' receiving the annual reports.

The annual reports for the 2006 Program (January 1, 2006- December 31, 2006) must be submitted to Mr. Jeffrey Jahn, Protected Resources Division, NMFS, 777 Sonoma Avenue, Room 325, California 95404, by February 28, 2007.

The annual reports for the 2007 Program (January 1, 2007- December 31, 2007) must be submitted to Mr. Jeffrey Jahn, Protected Resources Division, NMFS, 777 Sonoma Avenue, Room 325, California 95404, by February 28, 2008.

For each research project, the annual report must include:

1. Project Number and Title (see attached list for your project number)
2. Name, address, phone, and e-mail addresses of Principal Investigator or primary contact person(s)
3. Evolutionarily Significant Unit(s) in which project activities occurred (see attached list)
4. Beginning and projected end date, or indicate whether study is ongoing
5. Time of year and frequency of sampling (e.g., Jan – Jun; 3 days per week)
6. River basin(s) sampled, and approximate latitude and longitude of sampling sites
7. Brief description of the techniques and methods used
8. Actual Take (#s)
9. Summary of major findings (preliminary findings if project is still ongoing, or a final comprehensive report if project is completed)
10. Post-handling mortality occurrences (if any) for salmon and steelhead, and brief description of methods used to measure post-handling mortality
11. Measures taken to minimize disturbances to listed salmon and steelhead, and the effectiveness of these measures
12. Problems and/or unforeseen effects (e.g., fish injuries or mortalities) on salmon and steelhead that occurred during the project
13. Live fish counts from observational surveys

Modification Process

New or modified research activities conducted by or in cooperation with CDFG may be considered before this limit expires. Requests for any modifications to the Program must be submitted in writing to NMFS by the CDFG at least 60 days before the activity is due to commence, and must meet all of the same criteria as the original Program.

Reevaluation Criteria

NMFS will reevaluate this limit if: (1) the amount or extent of take specified in the Program is exceeded, (2) the research projects are modified in a way that causes an effect on the listed species that was not previously considered in the NMFS evaluation, (3) new information or project monitoring reveals effects that may affect listed species in a way not previously considered, or (4) a new species is listed or critical habitat is designated that may affect NMFS' evaluation of the research Programs.

Enclosure 2. Project Number, Principal Investigators, Affiliation, and Project Title for projects authorized in the 2007 CDFG 4(d) Research Program.

1	Gary Flosi, Barry Collins, and Scott Downie	CDFG	North Coast Watershed Improvement Center (NCWIC), Coastal Watershed Restoration Program, California Coastal Watershed Planning and Assessment Program
2	Jason Vasques, Mark Pisano	CDFG	General Fisheries Management Activities Performed by the District Biologist
3	Jason Vasques	CDFG	Fish Rescue and Evaluation
4	Michelle Gilroy, Scott Bauer	CDFG	District Fishery Biologist/ Watershed Biologist
5	Andrew Van Scoyk, William Nunley	Rowdy Creek Fish Hatchery, Inc.	Adult weir trapping
6	Bill Chesney	CDFG	Shasta River Juvenile Salmonid Monitoring Study

7	Bill Chesney	CDFG	Scott River Juvenile Salmonid Monitoring Study
8	Mark Pisano	CDFG	Shasta River Coho Radio-Telemetry Study and Redd Capping Study
9	Phillip Bairrington, Michael Sparkman	CDFG	Hook and Line Sampling of adult steelhead in Redwood Cr to investigate juvenile life history stage
10	Phillip Bairrington, Michael Sparkman	CDFG	Upper Redwood Creek Juvenile Steelhead Abundance Estimates. CDFG AFRAMP project 2a5
11	Phillip Bairrington, Michael Sparkman	CDFG	Lower Redwood Creek Juvenile Salmonid Abundance Estimates. CDFG AFRAMP project 2a7
12	Larry Hanson, Patrick Garrison	CDFG	Upper Trinity River Carcass and Redd Survey
13	Phillip Bairrington, Michael Sparkman	CDFG	Habitat utilization and migration movement patterns of wild and hatchery radio tagged adult winter-run steelhead in the Mad River, Humboldt County, California. CDFG AFRAMP project 1e2

14	Phillip Bairrington, Seth Ricker	CDFG	Freshwater Creek Juvenile Salmonid Population monitoring. CDFG AFRAMP project 2a6
15	Phillip Bairrington, Seth Ricker	CDFG	Freshwater Creek Adult Salmonid Population Monitoring. CDFG AFRAMP project 1a1
16	Michael Wallace	CDFG	Juvenile Salmonid Use of Sloughs and Tidal Portions of Humboldt Bay Tributaries
17	Harry Vaughn	Eel River Salmon Restoration Project	Eel River Salmon Restoration Project
18	Mary Power, Michael Limm	University of California, Berkeley	Investigation of downstream changes in carbon sources to juvenile steelhead in the South Fork Eel River
19	Peter Gruendike, Chris Moyer, Kirsten Gallo, Kris Fausti, Jake Chambers	USDA Forest Service and BLM	Aquatic and Riparian Effectiveness Monitoring Program
20	Sara Borok, Mark Hampton	CDFG	Klamath River Tributaries Fall-run Chinook Spawning Survey
21	Bill Chesney, Nina Selvage	CDFG	Shasta River Coho Early Life History Project, Upper Basin

22	Gary Peterson, Robert Yosha	Salmonid Solutions	Salmonid Population Monitoring, Mattole River
23	Scott Harris	CDFG	North Central District Salmon and Steelhead Resource Assessment
24	Alan Grass, Scott Harris	CDFG	CDFG Van Arsdale Fish Facility Chinook Salmon and Steelhead Trapping
25	Alan Grass, Scott Harris	CDFG	CDFG Noyo River Coho salmon and Steelhead Trapping
26	Doug Albin	CDFG	Mendocino-Northern Sonoma Coastal Watersheds Salmonid Restoration Project
27	Sean Gallagher	CDFG	Coastal Mendocino County Salmonid Monitoring Program (FRGP #054)
28	Michael Johnson, Joseph Kiernan, Brett N. Harvey	University of California, Davis	Navarro River Watershed Project
29	Michael Johnson, Joseph Kiernan	University of California, Davis	Marine-derived nutrients in coastal watersheds: mechanisms and pathways
30	Bill Cox	CDFG	District Fishery Biologist

31	Derek Acomb	CDFG	Russian River Restoration Program
32	Richard Stabler, Chris Seppeler; Crystal Acker; Laura Peltz	Sonoma County Permit and Resource Management Department	Sonoma County Streams Salmonid Surveys
33	Mike Podlech, Brian Pittman, Julie Remp	ESA and Associates	Squaw Creek Aquatic Monitoring Program (SCAMP)
34	Larry Hanson, Mark Hampton	CDFG	Klamath River Project Video Fish Counting Facilities
35	Gail Seymour, Derek Acomb	CDFG	North Bay Restoration Program
36	Matt Sloat, Frank Lignon	Stillwater Sciences	Lagunitas Cr Watershed salmonid limiting factors studies
37	AJ Keith, Russ Liebig	Stillwater Sciences	Napa River Watershed salmonid limiting factors studies
38	Matt Sloat, Neil Lassetre	Stillwater Sciences	Gualala River watershed salmonid limiting factors studies

39	Jose D. Setka, Bert Mulchaey	EBMUD Fisheries and Wildlife Division	Fisheries community monitoring program for San Leandro, San Pablo and Pinole creeks, California.
40	Margaret Paul	CDFG	South San Francisco Bay Restoration Program / and Sampling in Coastal Tribes
41	James Whelan	CDFG	Siskiyou County Resource Assessment, SFRA Grant F-51-R Project 66
42	Wade Sinnen	CDFG	Willow Creek and Junction City Trapping and Tagging Weirs
43	Jeff Dreier	Wetlands Research Associates, Inc.	Various biological consulting activities, including monitoring fish diversity in tidal channels and muted tidal systems.
44	Kristine Atkinson	CDFG	Fish population estimates, growth rates, and habitat utilization in creeks and lagoons in the SF Bay Area and the Central California Coast to assess habitat function for steelhead.
45	Michael Johnson, Peter B. Moyle, Rebecca M. Quinones	University of California, Davis	Environmental Factors Affecting Anadromous Fish Production in the Klamath River Basin
46	Mike Hill	CDFG	Steelhead presence/absence surveys

47	Jennifer Nelson	CDFG	South Central California Coast Coho Salmon and Steelhead Restoration and Enhancement Program
48	Douglas Rischbieter	Department of Parks and Recreation	Aquatic Resource Inventory and Monitoring, California State Parks
49	William T. Cox	CDFG	California Statewide Fish Disease Monitoring Program
50	Brian Sak	San Francisco Public Utilities Commission	Pilarcitos Creek Steelhead Restoration Project
51	Jerry Smith, Joel Casagrande	San Jose State University	Status, distribution, and microhabitat utilization of juvenile steelhead in Uvas and Llagas creeks
52	John Kleinfelter	CDFG	South Central Coast- Monterey Restoration Program
53	Mike Hill	CDFG	Carmel River steelhead population assessment
54	Mike Hill	CDFG	Steelhead presence/absence surveys: Pollution Cases
55	Mike Hill	CDFG	Chorro Creek Watershed Pikeminnow Removal Project

56	Robert Leidy PhD	USEPA	1) Distributional status and Ecology of Stream Fishes of the San Francisco Estuary, California, 2) Federal Clean Water Act, Section 404, Enforcement Investigations
57	James Harrington, Jennifer York, Shawn McBride	CDFG	California Environmental Monitoring and Assessment Program (CEMAP)
58	Diane Coulon	CDFG	Juvenile Salmonid Emigration Monitoring on the Sacramento River at the Glenn-Colusa Irrigation District (GCID) Fish Screen Bypass Channel
59	Maya Hayden, AJ Keith	Stillwater Sciences	Restoration Project Monitoring on the Tuolumne River at Big Bend
60	Douglas Killam	CDFG	Sport Fish Restoration Act - Project 59: Sacramento River Salmon and Steelhead Assessment - Job 1. Sacramento River Adult Salmon and Steelhead Counts and Spawning Stock Survey
61	Colleen Harvey Arrison	CDFG	Sport Fish Restoration Act - Project 35: Sacramento River Salmon and Steelhead Assessment - Job 2. Spring-run Chinook Salmon Life History Investigations in Mill and Deer Creeks, Tehama County.
62	Richard Corwin	USBOR	Monitoring of Fish Entrainment at Red Bluff Research Pumping Plant

63	Katie Perry, George Edwards	CDFG	Distribution and Relationship of Resident and Anadromous Central Valley Rainbow Trout
64	Tracy McReynolds, Clint Garmen	CDFG	Butte and Big Chico Creeks Spring-Run Chinook Salmon Life History Investigation
65	Michael Marchetti	Cal State University Chico	Big Chico Creek, Mud Creek, Little Chico Creek, and Sacramento River Monitoring
66	Joseph Johnson, Robert Vincik	CDFG	Central Valley Juvenile Salmon and Steelhead Emigration Monitoring
67	Rob Titus, Marc Mangel (UC Santa Cruz), Susan Sogard (NMFS SC Lab)	CDFG	Lower American River Juvenile Steelhead Assessment
68	Rob Titus, Martha Volkoff	CDFG	Central Valley Steelhead Assessments: Adult Scale Reading
69	Alicia Seesholtz, Jason Kindopp, Ryon Kurth	DWR	Feather River Fisheries Research - Spring Chinook Telemetry Study
70	Katie Perry, George Edwards	CDFG	Central Valley Rainbow Trout Population Genetic Evaluation

71	Michele Palmer, Andrea Fuller, Doug Demko	FISHBIO Environmental, LLC	Calaveras River Anadromous Fish Monitoring Program
72	Ian Drury, Duane Massa	CDFG	2003-2007 Lower Yuba River Salmonid Life History Evaluation, Utilizing Rotary Screw Trapping and Coded-wire Tagging
73	William Mitchell	Jones & Stokes	Life History and Stock Composition of Steelhead Trout in the Lower Yuba River
74	Kevin Clark	DWR	Quantification of Pre-Screen Losses of juvenile Steelhead within the State Water Project (SWP) Clifton Court Afterbay
75	Dennis Blakeman, Tim Heyne, Jason Guignard	CDFG	Tributary Rotary Screw Trap Operations
76	Noah Hume	Stillwater Sciences	Riverwide and Restoration Project Monitoring on the Tuolumne River
77	Tim Heyne, Dale Gates	CDFG	Hills Ferry Barrier

78	Maia Singer	Stillwater Sciences	The Merced Alliance Biological Assessment Monitoring
79	Jason Guignard, Tim Heyne, Dennis Blakeman	CDFG	Adult Salmon Escapement Surveys
80	Larry Brown, Jason May	USGS	USGS National Water Quality Assessment Program (NAWQA) studies in the San Joaquin River Basin
81	Tim Heyne, Jason Guignard	CDFG	Mossdale Kodiak Trawl Operation
82	Jason Kindopp, Anna Kastner	DWR, CDFG	Feather River Hatchery -Spring-run Chinook salmon and Steelhead Investigations
83	Steve Cramer, Kathryn Arendt, Brian Pyper, Ryan Cuthbert, Chrissy Sonke, Jim Inman, Jesse Anderson, Jason DuBois, Mike Justice, Jeremy Pombo	Cramer Fish Sciences	Rotary Screw Trapping on the Merced River at Hagaman County Park

84	Dennis Blakeman, Tim Heyne	CDFG	Restoration Project Monitoring
85	Jason Guignard, Tim Heyne, Dennis Blakeman	CDFG	Adult Steelhead Monitoring Program
86	Tim Heyne, Dennis Blakeman, Jason Guigard	CDFG	Juvenile Salmonid Abundance/ Distribution Project
87	Ted Grantham	UC Berkeley Grad Student - also cooperating with Moyle from UC Davis	Response of Steelhead to Changes in Pool Conditions During the Low-Flow Season within Upland Tributary Streams in the Russian River Basin, Sonoma County, California
88	Michele Palmer, Andrea Fuller, Doug Demko	FishBio	Calaveras River Fish Assemblage and Rearing Study
89	Rob Titus	CDFG	Steelhead Life History and Habitat Use in Dry Creek (Placer County)
90	Michele Palmer, Andrea Fuller, Doug Demko	FishBio	Stanislaus River Weir
91	Michele Palmer, Andrea Fuller; Doug Demko	FishBio	Lower Stanislaus River Fish Assemblage and Rearing Study

92	Don Alley	independent consultant	Determination of Juvenile Steelhead Production in 2007 for San Simeon Creek, San Luis Obispo County, California, with Habitat Analysis and an Index of Adult Returns
93	Don Alley	independent consultant	Determination of Juvenile Steelhead Densities and Distribution in San Luis Obispo Creek in Fall 2007
94	Don Alley	independent consultant	Determination of Juvenile Steelhead Production in Fall 2007 for Santa Rosa Creek, San Luis Obispo County, California with Habitat Analysis and an Index of Adult Returns
95	Kim Mattson, David Webb	Ecosystems Northwest	Effectiveness Monitoring of Restoration Projects in the Shasta Basin
96	Kristen Kittleson	County of Santa Cruz	Santa Cruz County Stream Habitat and Juvenile Salmonid Sampling Program - Aptos Creek
97	Kristen Kittleson	County of Santa Cruz	Santa Cruz County Stream Habitat and Juvenile Salmonid Sampling Program - San Lorenzo River

98	Kristen Kittleson	County of Santa Cruz	Santa Cruz County Stream Habitat and Juvenile Salmonid Sampling Program - Soquel Creek
99	Kristen Kittleson	County of Santa Cruz	Santa Cruz County Stream Habitat and Juvenile Salmonid Sampling Program - Corralitos subbasin of the Pajaro River
100	Don Alley	independent consultant	Determination of Juvenile Steelhead Production in Fall 2007 for Soquel Creek Lagoon, Santa Cruz County, California