

Agreement Number	Project ID, Amount Funded over ≤ 3 years	Principal Investigator(s), Affiliation(s)	Project Liaison(s)	Project Title	Project Files
9GA24701	EMC-2024-004 \$351,702	<ul style="list-style-type: none"> <li>• Brian Dotters, <i>Sierra Pacific Industries</i></li> <li>• Dr. Zach Peery, <i>University of Madison, WI</i></li> <li>• Dr. Connor Wood, <i>Cornell Lab of Ornithology</i></li> <li>• K. Lisa Yang, <i>Center for Conservation Bioacoustics</i></li> </ul>	<ul style="list-style-type: none"> <li>• Sal Chinnicci, <i>Humboldt and Mendocino Redwood Companies</i></li> <li>• Dr. Ben Waitman, <i>Department of Fish &amp; Wildlife (CDFW)</i></li> </ul>	Establishing a Survey Protocol for Marbled Murrelet Using Passive Acoustic Technology (Phase 1)	<ol style="list-style-type: none"> <li>1. <a href="#">Initial Concept Proposal</a></li> <li>2. <a href="#">Full Project Proposal</a></li> </ol> <p><i>Funding encumbered January 2025</i> <i>Active research ongoing</i></p>
9GA24700	EMC-2024-001 \$74,862	<ul style="list-style-type: none"> <li>• Dr. Katie Moriarty, <i>National Council for Air and Stream Improvement, Inc. (NCASI)</i></li> <li>• Dr. Holly Munro, <i>NCASI</i></li> <li>• Dr. John Bailey, <i>Oregon State University</i></li> </ul>	<ul style="list-style-type: none"> <li>• Dr. Ben Waitman, <i>Department of Fish &amp; Wildlife (CDFW)</i></li> <li>• Mathew Nannizzi, <i>Green Diamond Resource Company</i></li> </ul>	Balancing Fuel Considerations and Rare Carnivore Habitat: An Evaluation of Risk and Reward	<ol style="list-style-type: none"> <li>1. <a href="#">Initial Concept Proposal</a></li> <li>2. <a href="#">Full Project Proposal</a></li> </ol> <p><i>Funding encumbered December 2024</i></p>
9GA23700	EMC-2023-003 \$245,905	Dr. John D. Bailey, <i>Oregon State University</i>	Clarence Hostler, <i>NOAA National Marine Fisheries Service</i>	Pre- and Post-Harvest Fuel Loads and Implications for Site Productivity	<ol style="list-style-type: none"> <li>1. <a href="#">Initial Concept Proposal</a></li> <li>2. <a href="#">Full Project Proposal</a></li> </ol> <p><i>Funding encumbered February 2024</i></p>
9GA23701	EMC-2023-002 \$89,375	David Saah, <i>Spatial Informatics Group</i>	<ul style="list-style-type: none"> <li>• Jessica Leonard, <i>State Water Resources Control Board</i></li> <li>• Marjan Ghotzibedah, <i>State</i></li> </ul>	Assessing Fire Hazard, Risk, and Post Fire Recovery for Watercourse and Lake Protection Zones (WLPZ) and riparian areas of California	<ol style="list-style-type: none"> <li>1. <a href="#">Initial Concept Proposal</a></li> <li>2. <a href="#">Full Project Proposal</a></li> </ol> <p><i>Funding encumbered April 2024</i></p>

Updated February 12, 2025

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			<b>Water Resources Control Board</b>		
9GA22702	EMC-2022-005 \$91,278	<ul style="list-style-type: none"> <li>Tori Norville, <i>U.C. Cooperative Extension</i></li> <li>Dr. Michael Jones, <i>U.C. Cooperative Extension</i></li> </ul>	Drew Coe, <i>Department of Forestry &amp; Fire Protection (CAL FIRE)</i>	Decay Rates and Fire Behavior of Woody Debris in Coastal Redwoods	<ol style="list-style-type: none"> <li>Initial Concept Proposal</li> <li>Full Project Proposal</li> <li>Project Update – June 2024</li> <li>Progress Report Presentation – Nov 2024</li> </ol> <p><b>Active research ongoing</b></p>
9GA22701	EMC-2022-004 \$85,000	Dr. Rob York, <i>University of California, Berkley</i>	Dr. Leander Love-Anderegg, <i>University of California, Santa Barbara</i>	A critical evaluation of Forest Practice Regulation's capacity to accommodate forest restoration and resilience targets	<ol style="list-style-type: none"> <li>Initial Concept Proposal</li> <li>Full Project Proposal</li> <li>FLOC Presentation – May 2024</li> <li>Progress Report – June 2024</li> <li>Progress Report Presentation – Nov 2024</li> </ol> <p><b>Active research ongoing</b></p>
9GA22700	EMC-2022-003 \$207,876	Nadia Hamey, <i>Hamey Woods</i>	Jonathan Meurer, <i>Central Valley Regional Water Quality Control Board</i>	Santa Cruz Mountains Post-Fire Redwood Defect Study	<ol style="list-style-type: none"> <li>Initial Concept Proposal</li> <li>Full Project Proposal</li> <li>Progress Report – June 2023</li> <li>Progress Report – Sept 2023</li> <li>Progress Report – Dec 2023</li> <li>Progress Report Presentation – Nov 2024</li> </ol> <p><b>Active research ongoing</b></p>
9CA05659	EMC-2021-003 \$448,510	Dr. James Rivers, <i>Oregon State University</i>	Dr. Michael Jones, <i>U.C. Cooperative Extension</i>	Evaluating the Response of Native Pollinators to Fuel-Reduction Treatments in Managed Conifer Forests	<ol style="list-style-type: none"> <li>Initial Concept Proposal</li> <li>Full Project Proposal</li> <li>Sampognaro et al. 2023 – WFGRS Poster</li> <li>Gutierrez and Sampognaro 2024 – OSU Spring Poster Symposium</li> </ol>

Updated **February 12, 2025**

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					5. Rivers Invited Talk – 2024 6. Rivers and Sampognaro CalFire Bee Project Handout – July 2024 7. Progress Report Presentation – Nov 2024 <b>Final results expected 2025</b>
9CA04802	EMC-2019-005 \$56,200	Cheryl Hayhurst, <i>California Geological Society</i>	Bill Short, <i>California Geological Society</i>	Sediment Monitoring and Fish Habitat – San Vicente Accelerated Wood Recruitment	1. <a href="#">Initial Concept Proposal</a> 2. Full Project Proposal <i>Project funding disencumbered after term expiration; alternative research plan results expected late 2025</i>
9CA04824	EMC-2019-003 \$156,665	<ul style="list-style-type: none"> <li>• Dr. Terri Hogue, <i>Colorado School of Mines</i></li> <li>• Dr. Alicia Kinoshita, <i>San Diego State University</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Drew Coe, CAL FIRE</b></li> <li>• <b>Dr. Matthew O'Connor, O'Connor</b></li> <li>• <b>Givonne G. Law, East Bay Regional Park District</b></li> </ul>	Fuel Treatments and Hydrologic Implications in the Sierra Nevada	1. <a href="#">Initial Concept Proposal</a> 2. <a href="#">Full Project Proposal</a> 3. <a href="#">Boden et al. 2021 – AGU Conference Presentation</a> 4. <a href="#">Progress Report Presentation – Aug 2022</a> 5. <a href="#">Boden et al. 2023 – Ecohydrology</a> <i>Final deliverables and Completed Research Assessment expected 2025</i>
9CA04801	EMC-2019-002 \$68,168	<ul style="list-style-type: none"> <li>• Brad Graevs, <i>Feather River Resource Conservation District</i></li> <li>• Jason Moghaddas, <i>Spatial Informatics Group</i></li> </ul>	<ul style="list-style-type: none"> <li>• Dr. Stacy Drury, <i>U.S. Forest Service</i></li> <li>• <b>Drew Coe, CAL FIRE</b></li> </ul>	Evaluating Treatment Longevity and Maintenance Needs for Fuel Reduction Projects Implemented in the Wildland Urban Interface of Plumas County	1. <a href="#">Initial Concept Proposal</a> 2. Full Project Proposal 3. Final Report – Dec 2021 4. <a href="#">Final Presentation – Aug 2022</a> <i>Completed Research Assessment expected 2025</i>

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9CA04453	EMC-2018-006 <sup>§</sup> \$694,371	<ul style="list-style-type: none"> <li>• Dr. Kevin Bladon, Oregon State University</li> <li>• Dr. Catalina Segura, Oregon State University</li> <li>• Matt House, Green Diamond Resource Company</li> <li>• Drew Coe, CAL FIRE</li> </ul>	<ul style="list-style-type: none"> <li>• Drew Coe, CAL FIRE</li> <li>• Mathew Nannizzi, Green Diamond Resource Company</li> <li>• Dr. Ben Waitman, Department of Fish &amp; Wildlife (CDFW)</li> </ul>	Effectiveness of Class II Watercourse and Lake Protection Zone (WLPZ) Forest Practice Rules (FPRs) and Aquatic Habitat Conservation Plan (AHCP) Riparian Prescriptions at Maintaining or Restoring Canopy Closure, Stream Water Temperature, and Primary Productivity	<ol style="list-style-type: none"> <li>1. Initial Concept Proposal</li> <li>2. Full Project Proposal</li> <li>3. Progress Report Presentation – Jul 2021</li> <li>4. Progress Report Video – Jul 2021 (email <a href="mailto:Kristina.Wolf@bof.ca.gov">Kristina.Wolf@bof.ca.gov</a> for file)</li> <li>5. Wissler Thesis – July 2021<sup>§</sup></li> <li>6. Wissler et al. 2022 – Hydrological Processes<sup>§</sup></li> <li>7. Pimont Thesis – Aug 2022</li> <li>8. <a href="#">Nicholas Thesis Defense – Nov 2022</a></li> <li>9. <a href="#">Nicholas Thesis – Nov 2022</a></li> <li>10. <a href="#">Miralha et al. 2022 – Hydrological Processes</a></li> <li>11. <a href="#">Miralha et al. 2023 – Forest Ecology &amp; Management</a></li> <li>12. <a href="#">Final Report – Oct 2023</a></li> <li>13. <a href="#">Final Presentation – June 2024</a></li> </ol> <p>Completed Research Assessment expected <b>April 2025</b></p>
9CA04452	EMC-2018-003 \$101,802	Dr. Christopher Surfleet, California Polytechnic State University	<ul style="list-style-type: none"> <li>• Dr. Matthew O'Connor, O'Connor Environmental Inc.</li> <li>• Dr. Leander Love-Anderegg, U.C. Santa Barbara</li> </ul>	Alternative Meadow Restoration	<ol style="list-style-type: none"> <li>1. Project Proposal</li> <li>2. Cary Thesis – Aug 2021</li> <li>3. Marks Thesis – Dec 2021</li> <li>4. Progress Report – Apr 2022</li> <li>5. Final Report – July 2023</li> <li>6. Final Presentation – Nov 2023</li> <li>7. Ramirez and Surfleet 2023 – SAF</li> <li>8. Ramirez Thesis – June 2024</li> <li>9. Final Completed Resource Assessment – Nov 2024</li> </ol> <p>Final deliverables <b>received 2024</b></p>

Updated **February 12, 2025**

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n/a*	EMC-2017-012 <i>*no associated funding</i>	Dr. Michael Baker, <i>CAL FIRE</i>	<ul style="list-style-type: none"> <li>• Drew Coe, <i>CAL FIRE</i></li> <li>• Dr. Ben Waitman, <i>CDFW</i></li> </ul>	Assessment of Night-Flying Forest Pest Predator Communities on Demonstration State Forests – with Monitoring across Seral Stages and Silvicultural Prescriptions	<ol style="list-style-type: none"> <li>1. Progress Report – Sept 2022</li> <li>2. Lausen et al. 2022 - NEBWG Poster</li> <li>3. Lausen et al. 2023 – NASBR Poster</li> <li>4. Lausen et al. 2023 – Wildlife Society Bulletin</li> <li>5. Sample singing silver-haired bat sound files</li> <li>6. Lausen et al. 2023 – Dryad [dataset]</li> </ol> <p><i>Final results and Completed Research Assessment expected 2025</i></p>
9CA04087	EMC-2017-008 \$108,986	Dr. Richard Cobb, <i>California Polytechnic State University</i>	<ul style="list-style-type: none"> <li>• Dr. Ben Waitman, <i>CDFW</i></li> <li>• Jessica Leonard, <i>State Water Resources Control Board</i></li> </ul>	Do Forest Practice Rules Minimize Fir Mortality from Root Disease and Bark Beetle Interactions	<ol style="list-style-type: none"> <li>1. Project Proposal</li> <li>2. Poloni et al. 2021 – Pathogens</li> <li>3. Final Presentation – Apr 2022</li> <li>4. Final Completed Research Assessment – Dec 2022</li> <li>5. Flores et al. 2023 – Forest Pathology</li> <li>6. WIFDWC Presentation – June 2023</li> </ol> <p><i>Project Complete; one additional refereed publication expected 2025</i></p>
9CA04019	EMC-2017-007 \$71,278	Dr. John Battles, <i>University of California, Berkley</i>	<ul style="list-style-type: none"> <li>• Drew Coe, <i>CAL FIRE</i></li> <li>• Dr. Matthew O'Connor, <i>O'Connor Environmental Inc.</i></li> </ul>	The Life Cycle of Dead Trees and Implications for Management	<ol style="list-style-type: none"> <li>1. Project Proposal</li> <li>2. Final Presentation – Apr 2022</li> <li>3. Final Report – Aug 2023</li> </ol> <p><i>Project Complete; final report in revision and Completed Research Assessment expected 2025</i></p>

Updated February 12, 2025

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			<ul style="list-style-type: none"> <li>• Dr. Michael Jones, <i>U.C. Cooperative Extension</i></li> </ul>		
9CA04020	EMC-2017-006 \$114,844	Dr. Rob York, <i>University of California, Berkley</i>	<ul style="list-style-type: none"> <li>• Dr. Matthew O'Connor, <i>O'Connor Environmental Inc.</i></li> <li>• <del>Drew Coe, CAL FIRE</del></li> <li>• Mathew Nannizzi, <i>Green Diamond Resource Company</i></li> </ul>	Fuel treatment alternatives in riparian zones of the Sierra Nevada	<ol style="list-style-type: none"> <li>1. Project Proposal</li> <li>2. CLFA Presentation – Mar 2019</li> <li>3. <a href="#">Partial Harvest WLPZ White Paper w Cover Letter – 2019</a></li> <li>4. EMC field tour handout – 2020</li> <li>5. <a href="#">Forest and Research Outreach UCANR Blog – Dec 2021</a></li> <li>6. <a href="#">Final Presentation – Feb 2023</a></li> <li>7. Blodgett Forest Field Tour handout – Nov 2023</li> </ol> <p><i>Final deliverables expected 2025</i></p>
n/a	EMC-2017-002 \$1,200	Stacy Stanish, <i>CAL FIRE</i>	<ul style="list-style-type: none"> <li>• Drew Coe, <i>CAL FIRE</i></li> </ul>	Boggs Mountain Demonstration State Forest Post-Fire Automated Bird Recorders Study	<ol style="list-style-type: none"> <li>1. Project Proposal</li> <li>2. Methods Presentation – 2017</li> <li>3. <a href="#">Bird Recorder Deployment Presentation – 2017</a></li> <li>4. <a href="#">Progress Report (PDF) – Feb 2023</a></li> <li>5. Progress Report (PPT w audio links) – Feb 2023 (email <a href="mailto:Kristina.Wolf@bof.ca.gov">Kristina.Wolf@bof.ca.gov</a> for file)</li> </ol> <p><i>Final results expected 2025</i></p>
8CA03685	EMC-2017-001 \$192,251	<ul style="list-style-type: none"> <li>• Dr. Helen Dahlke, <i>University of California, Davis</i></li> <li>• Dr. Randy Dahlgren, <i>University of California, Davis</i></li> </ul>	<ul style="list-style-type: none"> <li>• Drew Coe, <i>CAL FIRE</i></li> <li>• James Burke, <i>North Coast Regional Water Quality Control Board</i></li> </ul>	Effects of Forest Stand Density Reduction on Nutrient Cycling and Nutrient Transport at the Caspar Creek Experimental Watershed	<ol style="list-style-type: none"> <li>1. Initial Concept Proposal</li> <li>2. Full Project Proposal</li> <li>3. Detailed Study Plan – 2017</li> <li>4. Sampling Methods – 2017</li> <li>5. Progress Report – Feb 2018</li> <li>6. Progress Report – June 2018</li> <li>7. Final Report – Dec 2021</li> <li>8. Final Presentation – Nov 2022</li> </ol>

Updated February 12, 2025

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			<ul style="list-style-type: none"> <li>Lance Leigh, <i>North Coast Regional Water Quality Control Board</i></li> </ul>		<i>Additional publications and Completed Research Assessment expected 2024</i>
8CA03680	EMC-2016-003 \$100,000	<ul style="list-style-type: none"> <li>Bill Short, <i>California Geological Survey</i></li> </ul>	<ul style="list-style-type: none"> <li>Matt O'Connor, <i>O'Connor Environmental Inc.</i></li> </ul>	Road Rules Effectiveness at Reducing Mass Wasting (Repeat LiDAR Surveys to Detect Landslides)	<ol style="list-style-type: none"> <li>Initial Concept Proposal</li> <li>Full Project Proposal</li> <li>Progress Report – Aug 2022</li> <li>Fuller et al. GSA Presentation – Oct 2022</li> </ol> <i>Completed Research Assessment expected April 2025</i>
n/a*	EMC-2016-002 <i>*no associated funding</i>	<ul style="list-style-type: none"> <li>Joe Wagenbrenner, <i>Michigan Technological University</i></li> <li>Kevin Bladon, <i>Oregon State University</i></li> <li>Drew Coe, <i>CAL FIRE</i></li> <li>Don Lindsay, <i>California Geological Survey</i></li> </ul>	None†	Post-fire Effectiveness of the Forest Practice Rules in Protecting Water Quality on Boggs Mountain Demonstration State Forest	<ol style="list-style-type: none"> <li>Project Proposal</li> <li>Olsen Thesis – 2016</li> <li>Cole Thesis – Mar 2020</li> <li>Prats et al. 2019 – Journal of Hydrology</li> <li>Cole et al. 2020 – Wildfire and Hydrological Processes</li> <li>Waggenbrenner et al. 2020 – AGU Poster Abstract</li> <li>Waggenbrenner et al. 2020 – AGU Poster</li> <li>Waggenbrenner et al. 2021 – CA Fire Science Seminar Presentation</li> </ol> <i>Project Complete and Closed</i>
n/a*	EMC-2015-004 <i>‡see funding associated with EMC-2015-002</i>	<ul style="list-style-type: none"> <li>Drew Coe, <i>CAL FIRE</i></li> <li>Bill Condon, <i>California Department of Fish and Wildlife</i></li> </ul>	None†	Effectiveness of Road Rules in Reducing Hydrologic Connectivity and Significant Sediment Discharge	<i>See EMC-2015-002 Project Complete and Closed</i>

Updated February 12, 2025

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8CA03685	EMC-2015-002 \$55,835	<ul style="list-style-type: none"> <li>• E. Ashley Steel, U.S. Forest Service Pacific Northwest Research Station</li> <li>• Pat Cunningham, U.S. Forest Service Pacific Northwest Research Station</li> </ul>	None†	Forest Practice Rules Implementation and Effectiveness Monitoring (FORPRIEM) ver. 2.0.	<ol style="list-style-type: none"> <li>1. Initial Concept Proposal</li> <li>2. Full Project Proposal</li> <li>3. Project Update – Jan 2016</li> <li>4. Final Report – June 2018</li> </ol> <i>Project Complete and Closed</i>
8CA03650	EMC-2015-001§ \$221,271	<ul style="list-style-type: none"> <li>• Dr. Kevin Bladon, Oregon State University</li> <li>• Dr. Catalina Segura, Oregon State University</li> </ul>	<ul style="list-style-type: none"> <li>• Drew Coe, CAL FIRE</li> </ul>	Class II Large Watercourse Study: Multiscale Investigation of Perennial Flow and Thermal Influence of Headwater Streams into Fish Bearing Systems	<ol style="list-style-type: none"> <li>1. Initial Concept Proposal</li> <li>2. Full Project Proposal</li> <li>3. Wissler et al. 2021 – Authorea</li> <li>4. Wissler Thesis – July 2021</li> <li>5. Wissler et al. 2022 – Hydrological Processes§</li> <li>6. CA Fire Science Seminar Presentation – Apr 2021</li> <li>7. Final Presentation – Apr 2021</li> <li>8. Final Presentation Attachments – Apr 2021</li> <li>9. Forest Practice Committee Presentation – Sep 2021</li> <li>10. Completed Research Assessment – Sep 2021</li> <li>11. Updated Presentation to the Forest Practice Committee – Dec 2021</li> <li>12. Rule Change 2022</li> </ol> <i>Project Complete and Closed</i>

\* No associated EMC funding

† project liaisons were introduced in 2020, and some projects were completed prior to assignment of liaisons.

‡ funding linked through associated EMC funded project

§ see also EMC-2018-006 or EMC-2015-001

Updated February 12, 2025