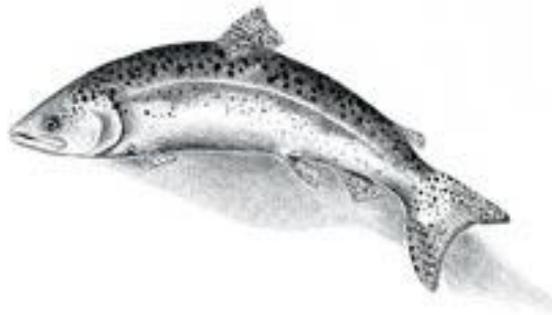




# **Anadromous Fisheries Resource Assessment and Monitoring Program (AFRAMP)**

## **Site Handbook**





## **Watershed Stewards Project Mission**

The mission of the AmeriCorps Watershed Stewards Project is to conserve, restore, and enhance anadromous watersheds for future generations by linking education with high quality scientific practices.



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## Introduction

### Site Description

<i>Location</i>	50 Ericson Court, Arcata, CA 95521
<i>Agency Affiliation</i>	California Department of Fish and Game, Anadromous Fisheries Resource Assessment and Monitoring Program (AFRAMP)
<i>General Ecology</i>	Coastal redwood forest, Douglas fir/hardwood forests, sandy beaches, rocky tidepools, coastal sand dunes, Humboldt Bay and associated marshes and wetlands.



### Mentor and Site Supervisor Bios

<i>Site Supervisor</i>	Seth Ricker has a Bachelor of Science degree in Natural Resources from the University of Maine, and 16 years experience performing and leading salmonid research and monitoring projects in northern California and Wyoming. He is currently an Environmental Scientist with the California Department of Fish and Game's (DFG's) Anadromous Fisheries Resource Assessment and Monitoring Program (AFRAMP) in Arcata, where he designs and implements salmonid research and monitoring projects in northern California coastal watersheds.
<i>Mentor</i>	Teri Moore has a Masters degree in biology from Chico State University and 19 years of experience performing and leading salmonid research and monitoring projects in northern California and Oregon. She is currently an Environmental Scientist with the California Department of Fish and Game's (DFG's) Anadromous Fisheries Resource Assessment and Monitoring Program (AFRAMP) in Arcata, where she assists with designing and implementing salmonid research and monitoring projects in northern California coastal watersheds.



**General Calendar of Duties at AFRAMP**

<b>Month</b>	<b>Location</b>	<b>Site Duties</b>	<b>Work Load</b>	<b>Typical Work Hours</b>
<b>Fall</b>				
<i>October</i>	Field/Office	<i>Field:</i> members will assist with capturing and PIT tagging juvenile coho salmon in Freshwater Creek and tributaries. <i>Office:</i> members will assist with spawner survey preparation, including: compiling landowner contact information, contacting private landowners (where appropriate), tracking and mapping access permission status, updating survey maps and data sheets, and obtaining and repairing field equipment.	Light	20 to 30 hours per week
<i>November</i>	Field/Office	<i>Field:</i> members will wrap-up Freshwater juvenile surveys and attend swift-water rescue training, river safety training, and spawner survey training. <i>Office:</i> members will assist with spawner survey preparation, including: compiling landowner contact information, contacting private landowners (where appropriate), tracking and mapping access permission status, updating survey maps and data sheets, and obtaining and repairing field equipment.	Moderate	30 to 40 hours per week
<b>Winter</b>				
<i>December</i>	Field/Office	<i>Field:</i> members will conduct spawner surveys and assist with trapping and PIT tagging adult salmonids at the Freshwater Creek weir. <i>Office:</i> members will mount and read fish scales, summarize scientific journal articles for AFRAMP's EndNote database, enter and edit field data, and maintain field equipment.	Busy	40 hours per week, 8 – 10 hours a day (some weekends).
<i>January</i>	Field/Office	<i>Field:</i> members will conduct spawner surveys and assist with trapping and PIT tagging adult salmonids at the Freshwater Creek weir. <i>Office:</i> members will mount and read fish scales, summarize scientific journal articles for AFRAMP's EndNote database, enter and edit field data, and maintain field equipment.	Busy	40 hours per week, 8 – 10 hours a day (some weekends)
<i>February</i>	Field/Office	<i>Field:</i> members will conduct spawner surveys and assist with trapping and PIT tagging adult salmonids at the Freshwater Creek weir. <i>Office:</i> members will mount and read fish scales, summarize scientific journal articles for AFRAMP's EndNote database, enter and edit field data, and	Busy	40 hours per week, 8 – 10 hours a day (some weekends)



**General Calendar of Duties at AFRAMP**

<i>Month</i>	<i>Location</i>	<i>Site Duties</i>	<i>Work Load</i>	<i>Typical Work Hours</i>
		maintain field equipment. They will also begin Education/Outreach.		
<b>Spring</b>				
<i>March</i>	Classrooms/Field	<i>Classrooms:</i> Education/Outreach. <i>Field:</i> spawner surveys; trapping and PIT tagging adult and juvenile salmonids at the Freshwater Creek weir.	Busy	40 hours per week, 8 – 10 hours a day (some weekends 8 hour days – 5 days/wk
<i>April</i>	Classrooms/Field	<i>Classrooms:</i> Education/Outreach. <i>Field:</i> spawner surveys; trapping and PIT tagging adult and juvenile salmonids at the Freshwater Creek weir.	Busy	40 hours per week, 8 – 10 hours a day (some weekends 8 hour days – 5 days/week
<i>May</i>	Classrooms/Field	<i>Classrooms:</i> Education/Outreach. <i>Field:</i> spawner surveys; trapping and PIT tagging juvenile salmonids at the Freshwater Creek weir.	Busy	40 hours per week, 8 – 10 hours a day (some weekends 8 hour days – 5 days/week
<b>Summer</b>				
<i>June</i>	Field/Office	Trapping and PIT tagging juvenile salmonids at the Freshwater Creek weir, locating and summarizing scientific journal articles for database, data quality control, mounting and reading fish scales; equipment maintenance	Moderate	30-40 hours per week
<i>July</i>	Field/Office	Summer snorkel surveys, locating and summarizing scientific journal articles for database, data quality control, mounting and reading fish scales; equipment maintenance	Light	20 to 30 hours per week
<i>August</i>	Field/Office	Summer snorkel surveys, locating and summarizing scientific journal articles for database, data quality control, mounting	Light	20 to 30 hours per week



General Calendar of Duties at AFRAMP

Month	Location	Site Duties	Work Load	Typical Work Hours
		and reading fish scales; equipment maintenance equipment maintenance		

Description of Site Duties

*Spawning ground surveys* During spawning survey season, be prepared to get up early (usually at the office by 0700). While performing the surveys you will hike upstream over rocks, mud, and logs in cold, swift water. Your goal will be to locate salmon carcasses, salmon nests (redds), and LIVE FISH! You will also learn to use hand-held global positioning systems (GPS) and personal digital assistant (PDA).

*Upstream migrant trapping* Between October and February, members may assist with trapping and tagging adult salmonids at the Freshwater Creek weir. During peak migration times, the weir will be staffed 24 hours/day. Therefore, you should be prepared to work occasional night and weekend shifts.

*Downstream migrant trapping* Between March and August, members will assist with trapping and tagging juvenile salmonids at the Freshwater Creek weir.

*Data entry* For the most part, data will be entered into the PDA while you are in the field. It is very important to pay attention while you are entering data because it is very easy to make mistakes. If you have problems or do not understand something, get help from a more experienced team member.

*Other* In addition to the activities listed above, members may participate in seining, snorkeling, and trapping projects managed by other DFG programs (as long as it does not interfere with scheduled AFRAMP activities). Also, be prepared to pitch in with cleaning and maintaining field gear and work areas. If there is anything you would like to learn, don't be afraid to ask!

ISPs and Outreach Events

ISP Information

*Getting started* In the past, Humboldt State University (HSU) students have been a great source of volunteers. Therefore, members should try to complete their ISP before HSU students leave for the summer. The WSP website has a great checklist for everything you need to do (all the forms, paperwork, and procedures). The best thing to do is talk to your mentor, who may already have some contacts and/ or project ideas.

*Media phone lists, check lists, forms* All ISPs must meet specific requirements (refer your current member handbook or the website below for this year's requirements). <http://www.ccc.ca.gov/work/programs/AmeriCorpsPrograms/wsp/Pages/wsp1.aspx>

*After your ISP* Remember to complete all paperwork required to finalize your ISP. Refer to the website and/or ask your Team Leader for the required documents.



## Outreach Information

There are many outreach opportunities available throughout the year; including:

*Humboldt Annual First Flush* – When the first rains come in the winter (Sept-Oct). Assist with water quality sampling. Good thing to look into if you're interested in water quality monitoring.

*Extra Education* – Just as a reminder, any classroom education you do that does not qualify for your Real Science teaching (less than six visits) will be Community Outreach on your time sheet.

*Weir Tours* – Since you'll be working at the Freshwater Creek weir, there will be a number of opportunities to get some of the local school classes to come on out for a field trip of sorts. Although some schools are not within walking distance and would have to put extra effort in transporting kids by bus, Freshwater Elementary is just across the road. Various classes have come over for 2-4 hours to get a tour and play games in the yard there.

*Various –  
Talk to  
your Team  
Leader!*

*Snorkel surveys*– In July, volunteer to count adult spring Chinook salmon, summer steelhead, and sea-run cutthroat on the Smith, Salmon, and Mattole Rivers. More information will be available as the survey dates approach. Don't miss out this is cool!

*Creek Days Environmental Education Fair*– Camp out in the redwoods for a week teaching kids about nature and awareness. Usually in May.

*Hoopa Fish Fair and Fish Lake Fishing Derby* – Spend the weekend in Hoopa or Orleans with the Northern Region WSPers. It's a good opportunity to teach kids in Hoopa and volunteer to help at the fishing derby the next day. Plus, this is a great time to check out the Klamath and Trinity Rivers. Generally, these events are scheduled for the beginning of June. Contact the U.S. Forest Service in Orleans or WSP members for the dates.

*Required  
service  
days*

WSP members are required to complete four hours of community service for Martin Luther King Jr. Day, Cesar Chavez Day, National Service Day, and Make a Difference Day. Hours may be completed on the day or within the week of the event. Team Leaders will arrange opportunities (or you may choose your own). Because they are meant to allow WSP members to serve their communities, service days are not required to be directly related to WSP's mission.

## Education

### Education Notes

*Getting started* Fall and winter (approximately October through March) are the busiest time for AFRAMP. Therefore, you should make every effort to postpone your education requirement until late March.



## Education Notes

<i>The minimum</i>	Members are given the choice of teaching alone or combining efforts with their site partner. If you are teaching with a partner, you are required to visit a minimum of two classes 6 times each (a total of 12 visits). Members generally have time to visit more than the minimum number of classrooms. At this site, classrooms will be assigned by your Team Leader.
<i>Set up a meeting w/ the teacher – A 6-Week Education Outline</i>	Come prepared with a draft curriculum for the teacher to evaluate. Be prepared to accept constructive criticism. Also, remember to let the teacher know you can't start until March.
<i>Your Team Leader</i>	Your Team Leader is the primary contact for everything related to Real Science. He /he can assist with lesson planning, classroom management issues, and WSP/teacher communication issues. Members who collaborate with Team Leaders often leave the classroom feeling more satisfied with their teaching abilities.
<i>The Education Handbook</i>	The education handbook contains information and ideas intended to help with your curriculum. However, you may also create your own worksheet, game, or presentation (just make sure someone reviews the material before presenting to the kids).
<i>Teaching</i>	If you're new to teaching, don't worry about it. Kids are flexible! Talk to your Team Leader for advice.
<i>Wrapping up</i>	Remember to administer Post-Tests and check the website for additional post-education forms.

## Local Ecology

### Descriptions of Local Ecology

<i>Climate</i>	Humboldt County is an area of moderate temperatures and considerable precipitation. Temperatures along the coast vary only 10 degrees from summer to winter, although a greater range is found over inland areas. Temperatures of 32 degrees or lower are experienced nearly every winter throughout the area, and colder temperatures are common in the interior. Maximum readings for the year often do not exceed 80 on the coast, while 100 degree plus readings occur frequently in the mountain valleys. For more information, refer to: <a href="http://co.humboldt.ca.us/portal/about.asp">http://co.humboldt.ca.us/portal/about.asp</a> , <a href="http://en.wikipedia.org/wiki/Arcata,_California">http://en.wikipedia.org/wiki/Arcata,_California</a>
<i>Native flora and fauna</i>	In the northern California coastal forest ecoregion, redwood forests are interspersed with several other plant communities, including northern coastal grasslands, northern coastal scrub, mixed evergreen coast douglas fir, tanoak, pacific madrone, California bay laurel, bishop pine, and knobcone pine. For more information, refer to the Redwood National and State Parks website:  <a href="http://www.nps.gov/redw/naturescience/plants.htm">http://www.nps.gov/redw/naturescience/plants.htm</a>



## Housing and Local Resources

### Housing Contact List

*Humboldt Craigslist*

<http://humboldt.craigslist.org/>

This is probably your best bet.

*Tri-City Weekly*

[www.tricityweekly.com](http://www.tricityweekly.com)

*Times-Standard*

<http://www.times-standard.com/>

*Arcata and Eureka Co-Op  
Bulletin Board*

Look for flyers for housing posted on their bulletin boards.

*Local Property Management  
Agencies*

Humboldt Property Management: (707) 825-1515 located at 954 H St, Arcata.

Rupp and Associates: (707) 443-7091 located at 1010 7th St., Eureka.

### Local Resource Contacts

*College of the Redwoods*

<http://www.redwoods.cc.ca.us/>

*Humboldt County Public Library*

<http://www.humlib.org/branches/eureka/>

*Humboldt Baykeeper*

<http://www.humboldt-baykeeper.org/>

*Northcoast Journal*

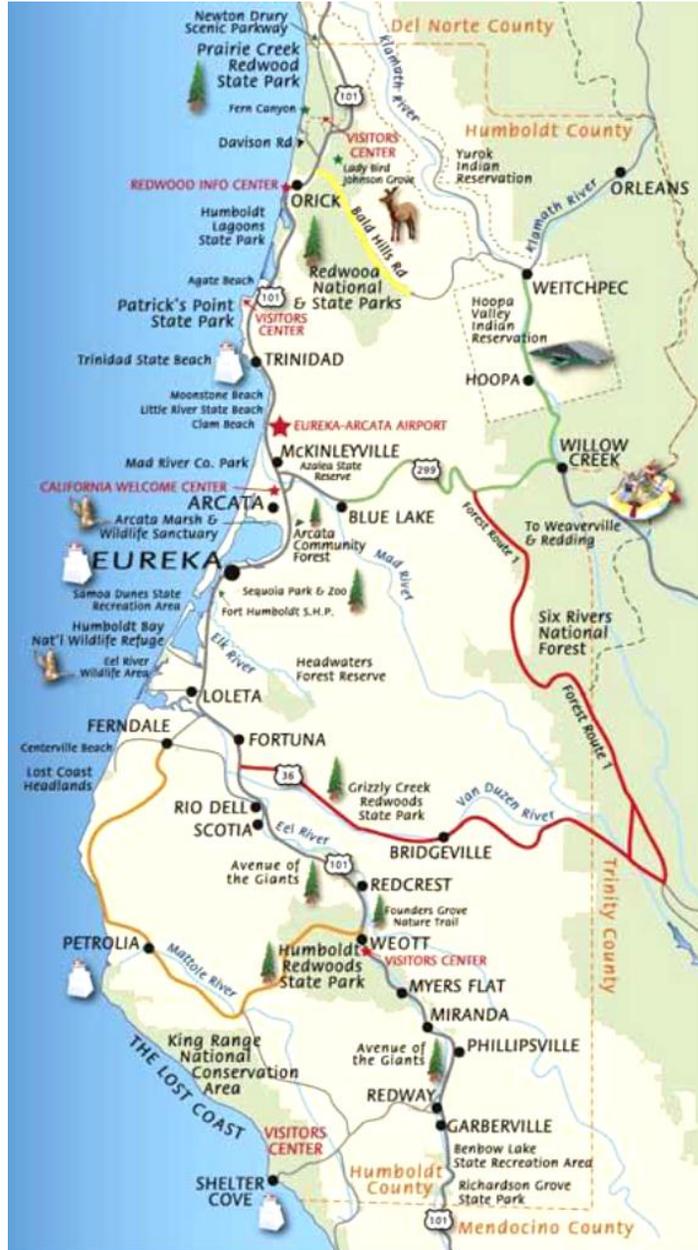
<http://www.northcoastjournal.com/>





# Community Information

## Map of Area



from www.garberville.org



## Community Demographics

- Population* About 134,623 people live in Humboldt County, with 11,926 in Fortuna; 27,191 in Eureka; and 17,231 in Arcata.
- People* An eclectic mix of people from all types of backgrounds.

## Community Services

- Assistance Programs* <http://co.humboldt.ca.us/hhs/ssb/foodstamps.asp>  
Most members are eligible for food stamps. Members are encouraged to contact County Social Services to enroll in assistance programs.

## Entertainment and Community Events

### Resources for Affordable Entertainment Options

- The North Coast Journal and HumboldtCounty.com* <http://www.northcoastjournal.com/>  
Arcata and Eureka, though they are “big” small towns in a rural county, are culturally rich with a flourishing artist community and music scene. Get out and explore; there is a lot to do and see!  
[www.humboldtcounty.com](http://www.humboldtcounty.com)  
Information on living, entertaining, and sightseeing.
- State and National Parks* [www.parks.ca.gov](http://www.parks.ca.gov)  
<http://www.nps.gov/redw/>  
The cheapest bowling alley (E&O Bowl) is in Blue Lake. The Minor Theater in Arcata is the oldest theater in CA still operating, and great place to see movies. There are also theaters in McKinleyville, Eureka, and Fortuna. The Arcata Theater Lounge [www.arcatatheater.com](http://www.arcatatheater.com) offers old movies and live sports on the big screen as well as music, dance, and other events. Rent movies a Figueiredo's in Eureka, McKinleyville or Arcata.
- Bowling, Movies, etc*

### Recurring Event List

- Festivals, Fairs, and Rodeos* <http://www.northcoastjournal.com/>  
There are many annual festivals and fairs (from Jazz to Reggae, BBQ to Oysters) in Humboldt County throughout the year. Many towns host rodeos during the summer as well. Ask locals or keep your eye on the North Coast Journal for listings. There are opportunities to volunteer and table for free or reduced admissions to festivals.
- Arts Alive Eureka & Arcata* Eureka Arts Alive: First Saturday of each month, 6-9 pm.  
Arcata Arts Alive: Second Friday of each month, 6-9 pm.  
The stores in town stay open late to offer free food, drinks, art, and music.