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### 3.4 FIRE PROTECTION

#### GOAL 4: SUPPORT FIRE-PROTECTION SERVICES FOR PEOPLE, PROPERTY, COMMUNITIES, AND NATURAL RESOURCES.

##### OBJECTIVE 4

THE HUMBOLDT COUNTY FIRE SAFE COUNCIL WILL SUPPORT ITS COLLABORATORS IN INCREASING FIRE AGENCIES' CAPACITY TO PROVIDE FIRE PROTECTION SERVICES FOR ALL PEOPLE, PROPERTY, COMMUNITIES, AND NATURAL RESOURCES.

The following Metrics and Priority Actions have been identified by the Humboldt County Fire Safe Council to be accomplished over the next five years towards meeting the goal of supporting fire protection services for people, property, communities, and natural resources in Humboldt County.

*For more information on Humboldt County's fire-protection resources and needs, see Chapter 5.3, **Wildfire Protection**.*

It is the intention of the collaborators of this CWPP that everything recommended in this Action Plan be implemented expeditiously over the next five years. That said, implementation is subject to the availability of funds and other resources, and the willingness and ability of community members and CWPP collaborators to take action.

#### 3.4.1 METRIC: STAFFING

ALL FIRE-PROTECTION AGENCIES WILL MAINTAIN LEVEL OF SERVICE STAFFING AS PER NFPA 1710 OR 1720, AS IS APPLICABLE TO THEIR AGENCY, AND GIVEN TRAVEL-TIME CONSTRAINTS.

PRIORITY ACTION 1	
INCREASE COMMUNITY AWARENESS OF VOLUNTEER STAFFING AND OTHER FIRE-SERVICE NEEDS BY SUPPORTING THE DEVELOPMENT AND MAINTENANCE OF A WEBSITE.	
<b>DESCRIPTION</b>	The Humboldt County Fire Safe Council (HCFSC) Fire Protection Work Group will support the Humboldt County Fire Chiefs' Association (HCFCA) to create a website, to share information with residents about volunteer staffing issues and other current needs. The website's purpose will be to educate community members regarding how they can support their local fire department, including helping with fundraisers, grant writing, reporting, paperwork, and/or becoming a volunteer firefighter. The site will include links to individual fire department websites and how community members can volunteer and join their local department.
<b>RESPONSIBLE PARTY</b>	Humboldt County Fire Chiefs' Association (HCFCA) with HCFSC Fire Protection Work Group
<b>ADDITIONAL PARTNERS</b>	Local fire departments, County of Humboldt, Fire Safe Councils (FSCs), local media, student volunteers or interns.
<b>ACTION STEPS</b>	<ul style="list-style-type: none"> <li>➤ Meet with HCFCA to identify the type of information and level of detail to share and how the HCFSC can provide support.</li> <li>➤ Review <i>HCFCA Annual Report</i> and other documents. Contact fire service representatives to identify information to share.</li> <li>➤ Explore various options regarding where to host the site, including HCFCA, HCFSC, another County site, or elsewhere; decide where to host site.</li> <li>➤ Contact site host to develop a template for hosting information.</li> <li>➤ Create template for how to share the information, including how community members can participate by volunteering.</li> </ul>

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	<ul style="list-style-type: none"> <li>➤ Create first iteration of information to share.</li> <li>➤ Put information online and test site.</li> <li>➤ Set up a process for updating and maintaining the information.</li> <li>➤ Announce the new website via networks (e.g. HCFCFA, HCFSC), local media, and social media.</li> <li>➤ Support HCFCFA to regularly update new volunteer needs.</li> <li>➤ Share results with HCFSC at next quarterly meeting.</li> <li>➤ Continually monitor visits and results.</li> <li>➤ Write up a summary for next CWPP Update.</li> </ul>
<b>DESIRED OUTCOME</b>	<b>WEBSITE WITH CURRENT INFORMATION REGARDING VOLUNTEER STAFFING AND OTHER FIRE-SERVICE NEEDS.</b>

**PRIORITY ACTION 2**  
**COLLABORATE WITH HCFCFA TO DEVELOP A PROGRAM TO INCREASE COMMUNITY AWARENESS OF VOLUNTEER STAFFING AND OTHER FIRE-SERVICE NEEDS.**

<b>DESCRIPTION</b>	<p>The HCFSC Fire Protection Work Group will work with information developed for the website in <i>Priority Action 1</i> above and identify other avenues to share this information with the public. This could include traditional media outlets (e.g. TV, radio, newspapers), social media, local blogs, and other avenues, including trader magazines. The outreach program could include:</p> <ul style="list-style-type: none"> <li>○ Creating a series of articles to share about local fire-protection needs, including one on each local fire department.</li> <li>○ Exploring writing a regular column about local fire department needs in local newspapers and/or blogs.</li> <li>○ Sharing the website, updates, and articles on social media, through HCFSC, HCFCFA, local fire departments, and other supporters.</li> <li>○ Tying this into the successful annual media work of the Fire Academy.</li> </ul>
<b>RESPONSIBLE PARTY</b>	<b>HCFSC Fire Protection Work Group with HCFCFA</b>
<b>ADDITIONAL PARTNERS</b>	Local fire departments, local media, local bloggers, County of Humboldt.
<b>ACTION STEPS</b>	<ul style="list-style-type: none"> <li>➤ Create, or obtain a copy of a media list of local media outlets. Check with HCFSC partners for existing information.</li> <li>➤ Explore options for a local fire-department column: who would write it, how often, where would it be published, etc.</li> <li>➤ Contact prioritized media outlets regarding hosting a regular column.</li> <li>➤ Contact the <i>Fire Academy</i> regarding their media efforts and how to collaborate.</li> <li>➤ Identify topics for feature stories or short stories about local fire departments and their needs to share with reporters.</li> <li>➤ Reach out to local fire departments asking for potential authors for columns, and/or speakers to be on local radio or TV.</li> <li>➤ Identify a list of authors for columns or articles, and speakers for TV and radio.</li> <li>➤ Write three columns or articles to get the project started; identify who will write successive columns.</li> <li>➤ Write a 1-2 paragraph summary of the project to share with local media to engage their interest and participation.</li> <li>➤ Identify local bloggers who might be interested in supporting local fire departments.</li> <li>➤ Reach out to bloggers and share the project summary.</li> <li>➤ Reach out to local radio and TV stations regarding creating a quarterly, short, public-</li> </ul>

	<p>service program featuring local fire departments.</p> <ul style="list-style-type: none"> <li>➤ Regularly share social media updates via HCFCA, HCFSC, and collaborators.</li> <li>➤ Continue to identify future topics, authors, and speakers.</li> <li>➤ Share results with HCFSC at next quarterly meeting.</li> <li>➤ Continually monitor results.</li> <li>➤ Write up a summary for next CWPP Update.</li> </ul>
<b>DESIRED OUTCOME</b>	<b>ONGOING AND CONSISTENT SOCIAL-MEDIA POSTINGS, QUARTERLY RADIO ANNOUNCEMENTS, AND ONE OR MORE NEWSPAPER ARTICLES ANNUALLY.</b>

The following lists of Potential Projects are those supported by this CWPP as having a positive benefit towards meeting this Metric, Objective, and Goal. The Humboldt County Fire Safe Council and its collaborators support and encourage implementation of the potential projects listed throughout this Action Plan.

**POTENTIAL PROJECTS**

- Identify process whereby mutual aid partners can help fill minimum staffing requirements in remote areas.
- Explore solutions to staffing issues throughout the day with volunteers who work during the day, etc.

**3.4.2 METRIC: FUNDING**

**A MAJORITY OF FIRE-PROTECTION AGENCIES WILL HAVE ADEQUATE AND SUSTAINABLE FUNDING.**

<b>PRIORITY ACTION 1</b> <b>SUPPORT HUMBOLDT COUNTY FIRE CHIEFS’ ASSOCIATION EFFORTS TO PARTICIPATE IN FUNDING OPPORTUNITIES AND ALLOCATIONS TO LOCAL FIRE-SERVICE AGENCIES.</b>	
<b>DESCRIPTION</b>	<p>Nearly every fire department in Humboldt County needs additional funding to perform the services expected of them by their citizenry to ensure adequate and sustainable community fire protection for all county residents. There is a lack of resources available to dedicate to raising more funds.</p> <p>Via this action item, the HCFSC will support HCFCA to explore options for sustainable and reliable sources of ongoing funding for fire-protection districts and departments. Funding sources could include:</p> <ul style="list-style-type: none"> <li>○ Revenue exchange agreements,</li> <li>○ Special taxes,</li> <li>○ Benefit assessments,</li> <li>○ Mitigation fees,</li> <li>○ User fees,</li> <li>○ Impact fees,</li> <li>○ Insurance billing,</li> <li>○ Grant funding, and</li> <li>○ Allocations such as proposition 172, Measures S (Marijuana Excise Tax) and Z (Public Safety Sales Tax), and others.</li> </ul> <p>Funding would help cover costs, including but not limited to the following:</p> <ul style="list-style-type: none"> <li>○ Dispatch fees and planning,</li> <li>○ Insurance and workers compensation expenses,</li> <li>○ Training programs, both local and countywide,</li> <li>○ Regional Coordinators to support: logistics, collaborative efforts, administrative tasks and capacity building, fundraising, recruitment and retention programs, training programs, and more,</li> </ul>

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	<ul style="list-style-type: none"> <li>○ Sustained services to all places where there is demand,</li> <li>○ Maintaining operable and up-to-date equipment, and</li> <li>○ Structures to protect and secure equipment.</li> </ul> <p>Defining a cost per firefighter, or a local actual cost per unit of population could help departments to educate their populace regarding the basic funds needed to support a volunteer department. (<i>Fortuna Fire</i> has a display of what it costs to fully outfit a volunteer firefighter.) This information could be useful to understand if it is more expensive to outfit a firefighter and/or cover basic expenses in rural areas, and/or if there is there an economy of scale to funding local fire protection.</p> <p>Finally, this action item would support all local fire departments in having access to quality materials for handing out at fundraising events, to support their local fundraising efforts.</p>
<b>RESPONSIBLE PARTY</b>	<b>HCFSC Fire Protection Work Group with HCFCA</b>
<b>ADDITIONAL PARTNERS</b>	Fire departments, County of Humboldt, Fire Safe Councils and Firewise® Communities, community organizations.
<b>ACTION STEPS</b>	<ul style="list-style-type: none"> <li>➤ Brainstorm regarding possible funding sources available to support local fire departments.</li> <li>➤ Develop a local database where the <i>Work Group</i> can track information regarding all possible funding sources, application requirements, how to apply, deadlines, and other relevant information.</li> <li>➤ Work with <i>HCFCA</i> to identify priority funding sources for the year; review and update these priorities annually.</li> <li>➤ Provide technical support for the consolidation, expansion, and/or formation of special districts that provide fire-protection services and identify revenue sources (special taxes, benefit tax assessments, impact fees, property taxes).</li> <li>➤ Provide guidance to local special districts regarding how to ground-truth and update local tax rolls to reflect new developments in order to capture the additional revenues they are due through benefit assessments or special taxes.</li> <li>➤ Meet with elected officials and decision makers regarding Proposition 172, Public Safety Sales Tax (Measure Z), and Marijuana Excise Tax (Measure S) priorities, and other funding possibilities.</li> <li>➤ Meet with <i>Humboldt Area Foundation</i> to discuss local and regional funding options, and learn how to do a database search for possible foundation grant support.</li> <li>➤ Report regularly to <i>HCFSC</i> and <i>HCFCA</i> regarding funding opportunities and to stay abreast of funding priorities.</li> <li>➤ Share funding success stories on website, social media, and other media outlets as identified in <i>Metric 3.4.1</i> above.</li> <li>➤ Annually evaluate the effectiveness of funding strategies in terms of the rate of funding and identify new strategies for the following year.</li> <li>➤ Share results with <i>HCFSC</i> at next quarterly meeting.</li> <li>➤ Write up a summary for next CWPP Update.</li> </ul>
<b>DESIRED OUTCOME</b>	<b>LOCAL FIRE SERVICE RECEIVES AN INCREASED RATE OF FUNDING.</b>

3.4.3 METRIC: EQUIPMENT

75% OF FIRE-PROTECTION AGENCIES WILL HAVE SAFE AND ADEQUATE EQUIPMENT.

PRIORITY ACTION 1	
PROVIDE EDUCATION AND SUPPORT FOR MEETING EXISTING MAINTENANCE AND REPAIR STANDARDS.	
<b>DESCRIPTION</b>	Many local fire departments are operating with old equipment that require constant maintenance, especially water tenders.-This action item would assist departments in meetings existing Maintenance and Repair standards with proper forms, inspection templates, and general education regarding these standards.
<b>RESPONSIBLE PARTY</b>	HCFCA with HCFSC Fire Protection Work Group
<b>ADDITIONAL PARTNERS</b>	Fire departments, state and federal fire protection agencies.
<b>ACTION STEPS</b>	<ul style="list-style-type: none"> <li>➤ Identify HCFSC role, such as helping to develop templates and networking.</li> <li>➤ Research existing templates to use as a basis.</li> <li>➤ Review and summarize existing standards.</li> <li>➤ Create checklist forms for local fire departments to use in meeting the standards. Include details in the checklist for filling in actual information (as opposed to only checking a box).</li> <li>➤ Develop an achievable maintenance schedule.</li> <li>➤ Ensure all template forms are in a format that can be adapted to include local specifics for each department, e.g. their specific apparatus maintenance schedules.</li> <li>➤ Share draft documents to HCFCA and HCFSC networks for review and comment.</li> <li>➤ Incorporate review and finalize template language with HCFCA.</li> <li>➤ Share templates with HCFCA, fire departments, and other partners.</li> <li>➤ Share details about the existing standards and template resources on website, social media, and other media outlets as identified in <i>Metric 3.4.1</i> above.</li> <li>➤ Share results with HCFSC at next quarterly meeting.</li> <li>➤ Continually monitor results.</li> <li>➤ Write up a summary for next CWPP Update.</li> </ul>
<b>DESIRED OUTCOME</b>	ALL LOCAL FIRE-SERVICE PROVIDERS WILL HAVE ACCESS TO INFORMATION ABOUT, AND GUIDANCE MATERIALS TO, MEET MAINTENANCE AND REPAIR STANDARDS.

PRIORITY ACTION 2	
EXPLORE AGREEMENTS WITH COUNTY, STATE, OR PRIVATE ENTITIES THAT HAVE EXISTING FACILITIES TO PROVIDE AFFORDABLE EMERGENCY APPARATUS MAINTENANCE AND REPAIR.	
<b>DESCRIPTION</b>	<p>As described above, much firefighting apparatus is in need of maintenance and repair. This action item explores creative options to keep equipment maintained, and to help meet the standard of the previous action.</p> <p>Historically, the timber industry and others who maintained heavy equipment helped with local fire-department equipment maintenance. This action item focuses on exploring potential cooperation. It does not commit agency partners to provide equipment or maintenance.</p>
<b>RESPONSIBLE PARTY</b>	HCFCA with HCFSC Fire Protection Work Group
<b>ADDITIONAL PARTNERS</b>	Local fire departments, CAL FIRE, SRNF, BLM, timber and other natural-resource industries; county, state, or private entities that have existing facilities, including County Motor Pool, school districts.

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<b>ACTION STEPS</b>	➤ Identify HCFSC role.
	➤ Identify the types of maintenance needs to fill.
	➤ Brainstorm potential cooperators.
	➤ Identify contacts within each potential cooperating entity.
	➤ Split up identified contacts and reach out to them to explore the possibility for them to support local fire departments through equipment maintenance.
	➤ Research similar agreements in other areas for example language.
	➤ Find a local attorney willing to help draft the agreement language pro bono.
	➤ Create first draft of agreement language.
	➤ Share draft agreement language with HCFCA, HCFSC, and interested individuals for initial review.
	➤ Incorporate initial review into draft agreement language.
	➤ Create a final draft of the agreement language to share with potential cooperators.
	➤ Incorporate cooperator’s review into final agreement language.
	➤ Share final agreement language with HCFCA for approval.
	➤ HCFCA finalize and sign agreements with cooperators.
	➤ Share the signing of agreements on website, social media, and other media outlets as identified in <i>Metric 3.4.1</i> above.
➤ Share results with HCFSC at next quarterly meeting.	
➤ Continually monitor results.	
➤ Write up a summary for next CWPP Update.	
<b>DESIRED OUTCOME</b>	<b>AGREEMENTS IN PLACE WITH ENTITIES TO ASSIST WITH REPAIRS AND MAINTENANCE OF LOCAL FIRE APPARATUS.</b>

**3.4.4 METRIC: TRAINING**

**NFPA 1403 STRUCTURAL AND NWCG FFT2 WILDLAND TRAININGS WILL BE AVAILABLE AT THE LOCAL LEVEL FOR ALL FIRE-PROTECTION AGENCIES.**

<b>PRIORITY ACTION 1</b>	
<b>ESTABLISH REGULAR FIRE-TRAINING PROGRAMS AND CLASSES AT THE LOCAL LEVEL TO SERVE ALL REGIONS THROUGHOUT THE COUNTY.</b>	
<b>DESCRIPTION</b>	<p>As previously stated in this CWPP, consistent and local training opportunities for local fire departments is a priority need for local firefighters. Given the remote nature of many areas, trainings are needed regionally, in the southern, north-eastern, and northern areas of the county, as well as in existing facilities in the Eel River Valley and Humboldt Bay.</p> <p>HCFCA is currently using Measure Z (Public Safety Sales Tax) funding for training facilities. There is now a need to establish structured and coordinated training programs, as well as individual courses. This action would create a standard curriculum and course materials.</p> <p>These trainings would promote National Fire Protection Association (NFPA) 1403<sup>1</sup> as a goal to achieve for structural trainings, and National Wildfire Coordinating Group (NWCG) Firefighter Type 2<sup>2</sup> for wildland fire training.</p>
<b>RESPONSIBLE PARTY</b>	<b>Humboldt County Fire Instructors Association (under the guidance of HCFCA) with HCFSC Fire Protection Work Group</b>
<b>ADDITIONAL PARTNERS</b>	Local fire departments, CAL FIRE, SRNF, BLM, County Office of Emergency Services (OES), College of the Redwoods.

<sup>1</sup> <https://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=1403>

<sup>2</sup> <https://www.nwcg.gov/fft2-firefighter-type2>

<b>ACTION STEPS</b>	➤ Identify HCFSC role.
	➤ Survey local fire departments and fire academies to identify training needs.
	➤ Identify and review existing training options available locally, including courses, trainers, and facilities.
	➤ Identify training gaps.
	➤ Draft proposed training program.
	➤ Send proposed training program for review to HCFCA, Fire Academy, and others.
	➤ Identify potential funding sources.
	➤ Seek funding to cover expenses.
	➤ Get trainers trained to teach courses locally.
	➤ Share results with HCFCA and local departments.
	➤ Share results with HCFSC at next quarterly meeting.
	➤ Share announcements of training opportunities on websites, social media, and other media outlets as identified in <i>Metric 3.4.1</i> above.
	➤ Write up a summary for next CWPP Update.
<b>DESIRED OUTCOME</b>	<b>REGULAR FIRE-TRAINING PROGRAMS IN THE SOUTHERN, CENTRAL, AND NORTHERN REGIONS OF THE COUNTY.</b>

**3.4.5 METRIC: DISPATCH**

**EFFICIENT AND EFFECTIVE EMERGENCY DISPATCH SERVICES WILL BE IMPROVED AND MAINTAINED THROUGHOUT THE COUNTY, INCLUDING INCREASING COVERAGE AREA TO 80%.**

<b>PRIORITY ACTION 1</b>	
<b>EVALUATE CURRENT DISPATCH COVERAGE AREAS TO IDENTIFY AREAS OF DEFICIENCY.</b>	
<b>DESCRIPTION</b>	Given the rural nature of Humboldt County, it is no surprise that there are several areas around the county where one does not have cellular service, let alone radio dispatch capacity. These areas include Miranda, Myers Flat, Weott, Whitethorn, Ettersburg, Honeydew, and nearby Whale Gulch, among others. This action item would identify these exact areas of deficiency so they can be addressed in future actions.
<b>RESPONSIBLE PARTY</b>	<b>HCFCA Communications Committee with HCFSC Fire Protection Work Group</b>
<b>ADDITIONAL PARTNERS</b>	Fortuna Interagency Command Center (FICC), CAL FIRE, County OES, additional Public Safety Access Points (PSAP) including Eureka, Fortuna, County Sheriff, local fire agencies, especially those in areas without radio coverage, County of Humboldt Communications, Bureau of Land Management, local communications equipment and service vendors.
<b>ACTION STEPS</b>	➤ Identify HCFSC role with the HCFCA Communications Committee and identify opportunities for support.
	➤ Survey local fire departments (via HCFCA) and dispatchers to identify geographic holes in coverage.
	➤ Work with County Communications and FICC to overlay these deficiency areas with call and incident maps to identify an initial list of priority areas.
	➤ Review initial priorities map with additional data layers for residences and structures, high-traffic roads, and historical emergency-incident locations.
	➤ Review draft maps with HCFCA, FICC, CAL FIRE, and County OES.
	➤ Incorporate comments from review of draft maps.
	➤ Finalize maps and share with HCFCA, FICC, CAL FIRE, and County OES.
	➤ Review future options to address deficiency needs, as well as opportunities for the HCFSC to provide support.
➤ Share results with HCFSC at next quarterly meeting.	

	➤ Write up a summary for next CWPP Update.
<b>DESIRED OUTCOME</b>	<b>IDENTIFICATION OF AREAS OF DISPATCH COVERAGE DEFICIENCY.</b>

**POTENTIAL PROJECTS**

- Secure funding to expand the program of outfitting emergency response vehicles with on-board computers that enhance dispatch and aid firefighters in their efforts to locate incidents.

**3.4.6 METRIC: LEVEL OF SERVICE**

**ALL FIRE AGENCIES WILL DEVELOP AND ADOPT LEVEL OF SERVICE STANDARDS FOR THE NEEDS OF THEIR COMMUNITY.**

<b>PRIORITY ACTION 1</b>	
<b>PROVIDE EDUCATION AND SUPPORT TO ASSIST FIRE AGENCIES IN IDENTIFYING OPPORTUNITIES TO MEET NFPA 1710 OR 1720 STANDARDS, AS PER AGENCY NEED.</b>	
<b>DESCRIPTION</b>	<p>There are aspects of the National Fire Protection Association (NFPA) response standards that are challenging for rural fire departments. Specifically, response-time expectations cannot consistently be met in many areas due to terrain and roadway limitations. Hence, fire departments either decline to adopt the standards, or ignore the specific expectations as “not applicable.”</p> <p>As well, education is needed regarding NFPA 1710 and 1720 standards for many local fire departments in order to support them in meeting the applicable standard.</p>
<b>RESPONSIBLE PARTY</b>	<b>HCFCA with HCFSC Fire Protection Work Group</b>
<b>ADDITIONAL PARTNERS</b>	Fire departments, CAL FIRE, County Roads, Southern Humboldt Fire Chiefs.
<b>ACTION STEPS</b>	<ul style="list-style-type: none"> <li>➤ Identify common themes among different departments.</li> <li>➤ Review call volumes and logs to get a sense of actual call times.</li> <li>➤ Create a survey for all fire departments regarding their issues in meeting the standards, to better understand their challenges and realities. Include questions for departments that are unable to meet the response standard in rural areas.</li> <li>➤ Survey local fire departments.</li> <li>➤ Identify common themes from surveys, call logs, and conversations.</li> <li>➤ Identify educational needs to address.</li> <li>➤ Create a guidebook for local fire departments to help them meet these standards.</li> <li>➤ Educate individual departments about why they should strive to meet the standards.</li> <li>➤ Look at options and opportunities to meet the response standard.</li> <li>➤ Share results with HCFSC at next quarterly meeting.</li> <li>➤ Share materials on HCFSC website, social media, local media outlets, and other avenues, including those identified in <i>Metric 3.4.1</i>.</li> <li>➤ Continually monitor results.</li> <li>➤ Write up a summary for next CWPP Update.</li> </ul>
<b>DESIRED OUTCOME</b>	<b>ALL LOCAL FIRE AGENCIES WILL UNDERSTAND AND MOVE TOWARDS MEETING NFPA 1710 OR 1720.</b>

<b>PRIORITY ACTION 2</b> <b>SUPPORT AND ASSIST LOCAL FIRE AGENCIES IN REPORTING LEVEL OF SERVICE IMPROVEMENTS TO ISO TO IMPROVE LOCAL RATINGS.</b>	
<b>DESCRIPTION</b>	Local fire agencies, such as the <i>Westhaven Fire Company</i> , have been successful in improving their <i>Insurance Service Office (ISO)</i> ratings, which has resulted in lowering of insurance rates for local residents. This action item would help local fire agencies to understand and facilitate the reporting process to <i>ISO</i> , and back to their community, to help improve ratings and ideally lower local insurance premiums.
<b>RESPONSIBLE PARTY</b>	<b>HCFSC Fire Protection Work Group with HCFCA</b>
<b>ADDITIONAL PARTNERS</b>	Local fire agencies, ISO, insurance companies.
<b>ACTION STEPS</b>	<ul style="list-style-type: none"> <li>➤ Review ISO procedures.</li> <li>➤ Talk to <i>Westhaven Fire Company</i> regarding how they did this, what they learned, and what they suggest for other local fire departments.</li> <li>➤ Develop a simple, step-by-step handout to share with local VFDs regarding how to report their improvements to <i>ISO</i>.</li> <li>➤ Share handout with local fire departments via <i>HCFCA</i> and other regular channels.</li> <li>➤ Share results with HCFSC at next quarterly meeting.</li> <li>➤ Share materials on HCFSC website, social media, local media outlets, and other avenues, including those identified in <i>Metric 3.4.1</i>.</li> <li>➤ Continually monitor results.</li> <li>➤ Write up a summary for next CWPP Update.</li> </ul>
<b>DESIRED OUTCOME</b>	<b>IMPROVEMENT OF ISO RATINGS IN COMMUNITIES WHERE LEVEL OF SERVICE HAS IMPROVED.</b>

### 3.4.7 METRIC: ENVIRONMENTAL IMPACTS

**IDENTIFY AND PLAN TO MINIMIZE NEGATIVE IMPACTS OF FIRE-RESPONSE OPERATIONS TO ECOSYSTEM PROCESSES AND FUNCTIONS.**

<b>PRIORITY ACTION 1</b> <b>COLLABORATE WITH LOCAL FISHERIES RESTORATION ORGANIZATIONS TO MINIMIZE NEGATIVE IMPACTS TO CRITICAL FISH HABITAT.</b>	
<b>DESCRIPTION</b>	There is increasing interest and need to ensure that fire-suppression efforts in the county do not threaten or harm already vulnerable salmonid populations. Several tangible steps can be taken to ensure this. This begins with supporting and encouraging communications between fisheries-restoration organizations and fire-suppression agencies. These conversations are already happening in several of the more remote areas of the county where fisheries habitat restoration occurs, such as Southern Humboldt and the Mid-Klamath. Representatives from these communities can help to spread this message to other local fire departments, as well as to state and federal fire-protection agencies. This collaboration is especially critical during large fires when firefighters are coming in from outside of the county. This information would be beneficial to add to pre-fire attack plans ( <i>see Metric 3.4.8 below</i> ).
<b>RESPONSIBLE PARTY</b>	<b>HCFSC Fire Protection Work Group</b>
<b>ADDITIONAL PARTNERS</b>	HCFCA, Salmonid Restoration Federation, watershed organizations, CAL FIRE, SRNF, fire departments.

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<b>ACTION STEPS</b>	➤ Identify local, experienced fire-protection and/or fisheries-restoration experts around the county to join a committee to lead this effort.
	➤ Brainstorm a list of critical issues to address and potential solutions.
	➤ Develop a list of recommendations and share with HCFCA for review.
	➤ Educate parties on the negative impacts of fire exclusion on river processes and functions, and to critical fish habitat.
	➤ Identify areas of critical fish habitat and include “no dipping” or “fish-screen required” areas on pre-attack maps.
	➤ Identify local critical fish habitat areas and include in existing database, (Aviation already has some of this information).
	➤ Highlight potential for less bucket dipping and water drafting in critical fish habitat during incidents (which often occur at critical times for salmonids).
	➤ Work with wildfire managers to increase the use of fish screens on water tenders, water pumps, and other pumping devices during large wildfire events.
	➤ Tie into Minimum Impact Suppression Tactics (MIST). Educate fire service agencies on how to achieve MIST.
	➤ Share with HCFCA.
	➤ Share results with HCFSC at next quarterly meeting.
	➤ Share results and success stories on HCFSC website, social media, local media outlets, and other avenues, including those identified in <i>Metric 3.4.1</i> .
	➤ Continually monitor results.
➤ Write up a summary for next CWPP Update.	
<b>DESIRED OUTCOME</b>	<b>STANDARD OPERATING PROCEDURES TO MINIMIZE NEGATIVE IMPACTS TO FISH HABITAT.</b>

**3.4.8 METRIC: PRE-FIRE ATTACK PLANS**

**DEVELOP PRE-FIRE ATTACK PLANS FOR FIVE LOCAL FIRE AGENCIES.**

<b>PRIORITY ACTION 1</b>	
<b>CREATE AND PROVIDE RESPONSE-AREA MAPS FOR EACH LOCAL FIRE AGENCY.</b>	
<b>DESCRIPTION</b>	There are several local fire organizations who do not have a detailed map of their response area. Through HCFCA, the County of Humboldt, CAL FIRE, and SRNF, coverage-area maps will be created and shared with every local fire agency that does not already have this. Maps are currently available to local fire departments for purchase at County Planning and Building/GIS.
<b>RESPONSIBLE PARTY</b>	<b>HCFSC Fire Protection Work Group with HCFCA</b>
<b>ADDITIONAL PARTNERS</b>	Fire departments, CAL FIRE, SRNF, County Planning and Building GIS.
<b>ACTION STEPS</b>	➤ Survey local fire departments through HCFCA to identify those who do not have a base map showing their response area.
	➤ Make a list of all those agencies who are needing maps.
	➤ Identify funding source to pay for maps for organizations that need them.
	➤ Identify data layers to be included on the maps.
	➤ Review County GIS example maps using County data for response-area boundaries.
	➤ Share template with SRNF, BLM, RNP, and/or other interested agencies.
	➤ Facilitate communications between local departments and the agency creating the map to ensure the final product will serve the needs of the local fire department.
➤ Ensure final maps are delivered to the respective fire department.	

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	<ul style="list-style-type: none"> <li>➤ Report to HCFCFA.</li> <li>➤ Share results with HCFSC at next quarterly meeting.</li> <li>➤ Share success stories on HCFSC website, social media, local media outlets, and other avenues, including those identified in <i>Metric 3.4.1</i>.</li> <li>➤ Continually monitor results.</li> <li>➤ Write up a summary for next CWPP Update.</li> </ul>
<b>DESIRED OUTCOME</b>	<b>RESPONSE-AREA MAPS CREATED FOR EACH LOCAL FIRE AGENCY.</b>

<b>PRIORITY ACTION 2</b>	
<b>CREATE A COUNTY MAP BOOK OF FIRE-PROTECTION RESPONSE AREAS AND RESOURCES.</b>	
<b>DESCRIPTION</b>	<p>Use the maps created in <i>Priority Action 1</i>, combined with existing response-area maps, protection values as identified in this CWPP process, and other data layers as deemed available and appropriate, to create a county-wide map book for fire protection. This map book could:</p> <ul style="list-style-type: none"> <li>○ Home addresses, water sources, access routes, safety zones, and whatever other resources that can be gathered,</li> <li>○ Road ingress and egress issues that increase emergency response times,</li> <li>○ Local water sites from community meetings, including identifiable water for fire suppression and getting that information back to local fire agencies (<i>see Metric 3.3.4</i>).</li> </ul>
<b>RESPONSIBLE PARTY</b>	<b>HCFSC Fire Protection Work Group with HCFCFA and County OES</b>
<b>ADDITIONAL PARTNERS</b>	Fire departments, CAL FIRE, SRNF, County of Humboldt Planning and Building GIS.
<b>ACTION STEPS</b>	<ul style="list-style-type: none"> <li>➤ Decide on data layers to include.</li> <li>➤ Identify which maps are completed and which are needed.</li> <li>➤ Review local examples of map books, such as the Mattole and BriceLand versions.</li> <li>➤ Identify budget and funding needs.</li> <li>➤ Seek funding to implement.</li> <li>➤ Talk to agencies regarding who will be lead, or if several will collaborate.</li> <li>➤ Work with one of the above agencies to create a template.</li> <li>➤ Bring draft proposal to HCFCFA for approval.</li> <li>➤ Identify which agencies will create which pages/areas of the county.</li> <li>➤ Get maps created.</li> <li>➤ Bring maps together to create a countywide book.</li> <li>➤ Develop digital version for tablets.</li> <li>➤ Print map books.</li> <li>➤ Distribute at least one map book to each local agency; with adequate funding, one for each engine in the county.</li> <li>➤ Report to HCFCFA.</li> <li>➤ Share results with HCFSC at next quarterly meeting.</li> <li>➤ Share success stories on HCFSC website, social media, local media outlets, and other avenues, including those identified in <i>Metric 3.4.1</i>.</li> <li>➤ Continually monitor results.</li> <li>➤ Write up a summary for next CWPP Update.</li> </ul>
<b>DESIRED OUTCOME</b>	<b>PROVIDE ALL LOCAL FIRE AGENCIES WITH A COUNTY MAP BOOK OF FIRE-PROTECTION RESPONSE AREAS AND RESOURCES.</b>

<b>PRIORITY ACTION 3</b> <b>SUPPORT CREATION OF OPERATIONAL AREA PRE-ATTACK MAPS FOR AT LEAST FIVE LOCAL AGENCIES.</b>	
<b>DESCRIPTION</b>	<p>The creation of pre-fire attack maps can facilitate pre-fire strategic planning at a variety of levels. These maps can build on the data in the county map books from the previous action, to include strategic data such as possible areas for fire breaks, evacuation sites, and more.</p> <p>Data sets would include CWPP priorities, such as:</p> <ul style="list-style-type: none"> <li>○ Current or recent fuel-hazard reduction treatments and/or fuel breaks, with treatment date.</li> <li>○ Landscape-level strategic fuel treatments and fuel reduction around communities/in the interface.</li> <li>○ Where to use managed wildfire on the landscape, and other landscape-scale actions identified in <i>Chapter 3.5 Restoration of Beneficial Fire</i>.</li> <li>○ Habitat protection, including salmonids, as per <i>Metric 3.4.7</i> above.</li> <li>○ Information gathered at community meetings, ideally with some cross-checking and/or ground truthing.</li> <li>○ Current and potential water supplies.</li> </ul> <p>HCFCFA, County OES, and CAL FIRE would collaborate to identify five local areas to create pre-fire attack plans. More information and examples of this planning effort in other communities include:</p> <ul style="list-style-type: none"> <li>○ The Western Klamath Restoration Partnership (WGRP) created pre-attack map books for the Orleans-Somes Bar area in coordination with SRNF, Orleans/Somes Bar FSC, Karuk Tribe, and Orleans Volunteer Fire Department.</li> <li>○ CAL FIRE and San Luis Obispo County Fire, <a href="http://www.calfireslo.org/PreAttack.html">http://www.calfireslo.org/PreAttack.html</a></li> <li>○ West Metro Fire and Rescue of Lakewood, Colorado has a set of initial maps for their two-county area which is available here: <a href="http://wildland.westmetrofire.org">http://wildland.westmetrofire.org</a></li> </ul>
<b>RESPONSIBLE PARTY</b>	<b>HCFSC Fire Protection Work Group with HCFCFA</b>
<b>ADDITIONAL PARTNERS</b>	Fire departments, CAL FIRE, SRNF, County OES, County Planning and Building, BLM.
<b>ACTION STEPS</b>	<ul style="list-style-type: none"> <li>➤ Review examples from WGRP/SRNF Orleans Ranger District, San Luis Obispo, and Metro Fire and Rescue.</li> <li>➤ Meet with collaborators, including HCFCFA, CAL FIRE, County OES, County GIS, and others to identify priority data sets to include.</li> <li>➤ Meet with HCFCFA to identify five areas in which to start.</li> <li>➤ Work with HCFCFA to determine the most effective layout and detail level.</li> <li>➤ Work with collaborators to create a template.</li> <li>➤ Explore option of using <i>Avenza</i><sup>3</sup> maps for updating information.</li> <li>➤ Report to HCFCFA.</li> <li>➤ Share results with HCFSC at next quarterly meeting.</li> <li>➤ Share materials on HCFSC website, social media, local media outlets, and other avenues, including those identified in <i>Metric 3.4.1</i>.</li> <li>➤ Continually monitor results.</li> <li>➤ Write up a summary for next CWPP Update.</li> </ul>
<b>DESIRED OUTCOME</b>	<b>PRE-FIRE ATTACK MAPS CREATED FOR FIVE LOCAL FIRE-PROTECTION ORGANIZATINOS WITH A TEMPLATE FOR COUNTYWIDE IMPLEMENTATION.</b>

<sup>3</sup> Avenza Maps: <https://www.avenzamaps.com/index.html>