

A: DIVISION / BATTALION / PROGRAM PLANS



**CAL FIRE**



***SISKIYOU UNIT PREVENTION BUREAU***

***IGNITION MANAGEMENT PLAN***

**Overview**

The Siskiyou Unit Prevention Bureau covers approximately 1.6 million acres in Siskiyou County. Fuel types within the Unit include timber, brush, oak woodland, grasses, desert sage and juniper stands.

Due to the vast size of the County and the diverse landscapes contained within it, the weather in Siskiyou County can vary greatly from one location to the next. However, weather in Siskiyou County can be generally characterized as having hot, dry summers followed by cool, wet winters. Temperatures in the summer can soar above the 100 degree mark and dip below freezing in the winter. Windy conditions are consistently common in several geographical areas of the county. Historically, most of the large fires within the Unit have been wind driven. The mountain ranges and the local weather patterns support a natural mixture for severe electrical storms throughout most of the summer months. Often times these storms are accompanied with strong winds and can have little to no precipitation associated with them.

Historically, lightning has been the number one cause of ignitions within the Unit. 2010 ignition data indicates there were a higher number of debris burning ignitions than there were ignitions resulting from lightning. However, after careful data analysis, these numbers appear to be inflated. The actual number of debris burns with escape, only totaled four in 2010. The twenty-three additional debris fires did not actually escape the owner's control. In many of these instances, these debris burns were rather enforcement issues, (i.e. burning out of hours, burning on non-burn days), not requiring full suppression efforts from responding firefighting resources. Often times, actions taken by firefighting resources included having the responsible person extinguish the fire. Subsequently, the responsible person was then counseled and educated on the permit requirements of debris burning.

Ranching, recreation, and the timber industry fuel the County economy. As a result, ignitions related to equipment were the second highest number of fire causes within the Unit during 2010. The summer months see a large influx of tourists who take advantage of the County's wide range of outdoor activities. Activities include hiking, fishing, hunting, mountain climbing, white water rafting, mountain biking and camping. At times, these activities result in both authorized and unauthorized fires. In an effort to reduce the total number of negligent fires, the Prevention Bureau takes the lead role in informing, educating, and enforcing forest and fire laws.

Personnel within the Bureau work seamlessly with County Government to ensure public safety building codes are enforced in commercial and residential development. The Bureau vigorously and consistently pursues prompt enforcement of all forest and fire laws and seeks, when appropriate cost

recovery for fire suppression. Bureau personnel are active members on the Siskiyou County Arson Taskforce (SCAT) and collaborate with other law enforcement agencies as needed or requested.

Pre-Fire Engineering is another component of the prevention Bureau. The Bureau is responsible for ensuring the Fire Plan and statistical data, are properly captured, and reviewed for pre-fire planning.

The Bureau works with each Battalion towards accomplishing goals and objectives to reduce the ignition problem throughout the Unit. Mapping in a Geographical Information Systems (GIS) environment is a large component of the Pre-Fire Engineering duties. It is imperative that the Bureau assures that all maps are complete and accurate, and the most current methodologies are being used to capture data.

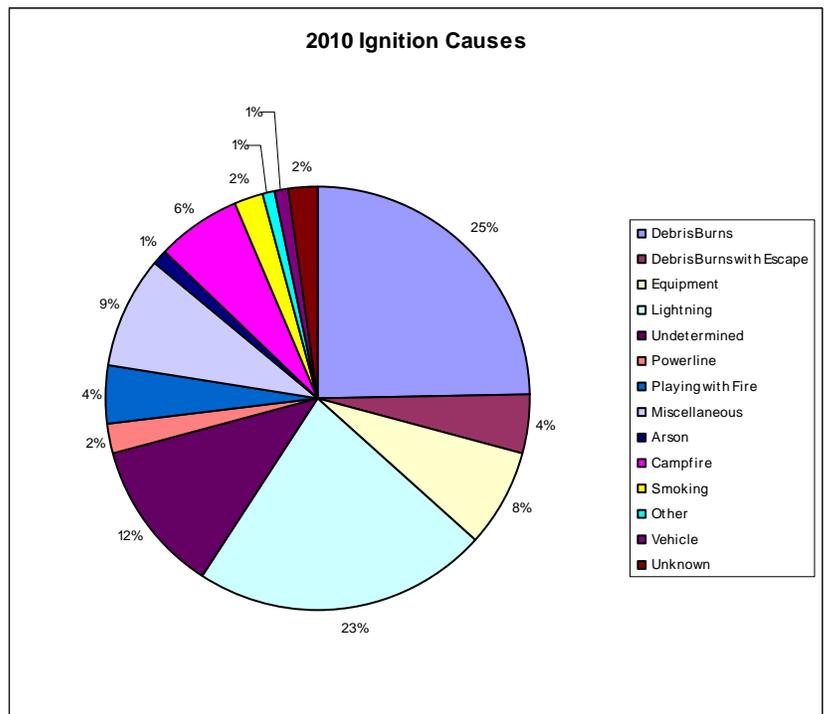
The Prevention Bureau continues to provide education and information through school programs, out reaches, and one-on-one contact with the public. The Bureau generates press releases and public service announcements on a regular basis, in an effort to inform and educate as many residents as possible. The Bureau actively participates in an inter-agency Fire Prevention Co-op. The cooperative is between local, state and federal agencies and is an ongoing effort to spread fire prevention messages to the communities we serve.

The Prevention Bureau also uses Volunteers in Prevention (VIP) to educate the public by performing clearance inspections around residences, issuing burn permits, campfire permits, power line inspections, and assisting with educational opportunities.

## ***2010 FIRE CAUSES***

### **Fires total: Breakdown as follows;**

Debris Burns	23
Debris Burns with Escape	4
Equipment	7
Lightning	21
Undetermined	11
Power line	2
Playing with Fire	4
Miscellaneous	8
Arson	1
Campfire	6
Smoking	2
Other	1
Vehicle	1
Unknown	2
<b>Total Number of Fires</b>	<b>93</b>



## PREVENTION BATTALION

# FIRE PREVENTION GOALS

### GOAL # 1

#### **Reduce the total number and severity of fires throughout the Unit**

- a. Prioritize projects, education, and community involvement in target areas based on analyzed ignition data.
- b. Reduce the total number of illegal debris burning fires through education and enforcement efforts.
- c. Work closely with state, federal, and local governments, to cooperatively reduce ignitions across jurisdictional boundaries.
- d. Actively patrol on high fire danger days and provide education on potential fire hazards, proper fire use, and fire safety.
- e. Actively patrol in areas with high ignitions and vigorously pursue prompt enforcement action of forest and fire laws when necessary.

### GOAL # 2

#### **Increase the total number of defensible homes within the Unit.**

- a. Educate residents on the proper care, maintenance and benefits of a “defensible space” home.
- b. Analyze data to identify areas with large concentrations of homes that do not meet the defensible space requirements and target these areas for inspections.
- c. Provide training to Siskiyou Unit on PRC 4291 (LE-100) to use as an educational tool with any public contact.
- d. When necessary pursue enforcement actions to gain “defensible space” compliance.
- e. Collaborate with county and local governments and Fire Safe Councils to identify and prioritize projects that will increase a community’s defense in the event of wildfire.

### GOAL # 3

#### **Reduce the total number of undetermined fires within the Unit.**

- a. Provide further training and education to field personnel in proper origin and cause investigation.
- b. Analyze investigation reports from the field for accuracy and completeness.
- c. Provide direction to field personnel on proper reporting techniques.

### GOAL # 4

#### **Enhance education and training for Bureau personnel**

- a. Provide Bureau personnel with training in Juvenile Fire Setter Program.
- b. Provide Bureau personnel with training in Field Training Officer (FTO).
- c. Provide Bureau personnel with training in public information.
- d. Provide Bureau personnel with training in fire arms instruction.
- e. Provide Bureau personnel with advanced training in GIS.
- f. Provide Bureau personnel with advanced training in investigation.



# ***CAL FIRE***

## ***Siskiyou Training Battalion***



### **Training Battalion**

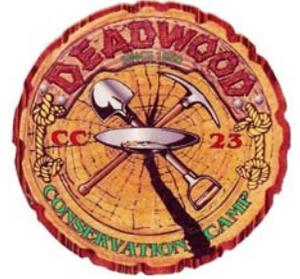
The Siskiyou Unit Training Bureau provides on-going training, education and certification to all CAL FIRE personnel assigned to the Siskiyou Unit. The Training Bureau also provides training and education support for several local government volunteer fire departments throughout Siskiyou County. The Siskiyou Unit Training Bureau is currently State funded for one Battalion Chief.

The first priority of the Siskiyou Training Bureau is to provide the overall safety of permanent, seasonal and volunteer personnel through proper training. Training is conducted through instructional programs that target operational efficiency with emphasis on safe operating procedures in all aspects of fire and emergency operations. All training is focused on providing and maintaining the highest quality emergency services at both fire and medical responses to the citizens of California. Instructional programs target operational efficiency with emphasis on safety and cost effectiveness in all aspects of fire and emergency operations. The Siskiyou Unit requires all employees to spend at least 15 percent of their time in training. This training can range from informal routine station training to formal web-based or classroom environment training. The Siskiyou Unit has implemented an on-line training program (Target Safety) which has streamlined the delivery of emergency operational training. All training is based on defined, measurable objectives and delivered in the most effective and cost efficient manner.

The Siskiyou Unit is heavily involved with cooperative relationships, which include involvement with the College of the Siskiyou's (COS) Fire Program and training grounds. This cooperation leads to outstanding opportunities that allow quality and cost efficient professional training using one of the best fire training facilities on the West Coast. The Siskiyou Unit, in cooperation with the Klamath National Forest, Shasta-Trinity National Forest and many local government fire departments, conducts a two-day multi-agency drill (Siskiyou County Interagency Hall Drills) each July to provide annual re-certification for wildland fire training for the Siskiyou County fire services. Local, State and Federal wildland firefighters who participate in the drill are able to improve their skills, as well as, create cooperative working relationships in an interagency environment.



# ***CAL FIRE***



## ***Deadwood Camp***

Deadwood Camp is a 90 man, four fire crew camp located in Siskiyou County approximately five miles from the town of Fort Jones. The fire crews work on grade projects five days a week all year round. These projects include many fuel reduction projects for Fire Safe Councils, municipalities, schools, county government, state government agencies and federal government agencies. Acres treated vary by project and stakeholder needs and desires. As recognized by the fire plan, inmate labor for fuel reduction projects provides good training for fire fighting crews and defensible space around valuable assets and infrastructure at a reasonable cost to the taxpayer.





# ***CAL FIRE***

## **SCOTT VALLEY BATTALION**

### ***IGNITION MANAGEMENT PLAN***



#### **EXECUTIVE SUMMARY:**

The Scott Valley Battalion (Battalion 1) is staffed by a Battalion Chief (Battalion 2611), Fort Jones Station is staffed with: 2 Fire Captains, 2 Fire Apparatus Engineers, 1 Heavy Fire Equipment Operator assigned year around. During the summer months, an LT Fire Apparatus Engineer and approximately 10 to 14 seasonal firefighters complete the peak summer staffing. Duzel Rock Lookout and Quartz Hill Lookout are located in the Battalion. Lookouts will be staffed during high fire danger or when severe lightning storms are predicted.

In the Scott Valley Battalion, the Scott Valley Volunteer Fire Protection District, the Etna City Volunteer Fire Department, Fort Jones Volunteer Fire Department, and the United States Forest Service (USFS) support the emergency response with Automatic Aid and Mutual Aid Agreements. It is inevitable that despite the highly effective wildland fire protection system, some fires will continue to escape control efforts under extreme weather conditions, or when resource availability is limited due to significant fire activity. As a result, a collaboration of efforts is necessary to create homes and communities that can withstand such fires.

The Scott Valley Battalion consists of approximately 387,000 acres of State Direct Protection Area (DPA). Most of the State Responsibility Area (SRA) is located in the hills surrounding the Local Responsibility Area (LRA) on the valley floor of the Scott Valley. Approximately 56,000 acres of CAL FIRE'S DPA are federal lands of the United States Forest Service and the Bureau of Land Management.

Located throughout the Battalion there are a significant number of residences that reside within the Wildland Urban Interface (WUI). This situation creates a complex WUI problem that requires attention and mitigation to reduce the threat of catastrophic wildfires. The area of Fort Jones, Etna, Greenview, Quartz Valley, and Callahan support the most populated areas of the Battalion. State Highway 3 runs through the middle of the Battalion with moderate traffic during the daylight hours. Vegetation types range from grass, brush, to timber. Timber makes up approximately 85% of the Battalion vegetation type. Approximately 15% of the vegetation type is comprised of brush fields and annual grasses. Historically large fires have occurred throughout the Battalion, however in recent years the fire sizes have been relatively small in comparison. The conditions and potential have increased in recent years for a large fire to occur as a result of decreased level of timber harvesting, and an increased number of individuals moving into the WUI.

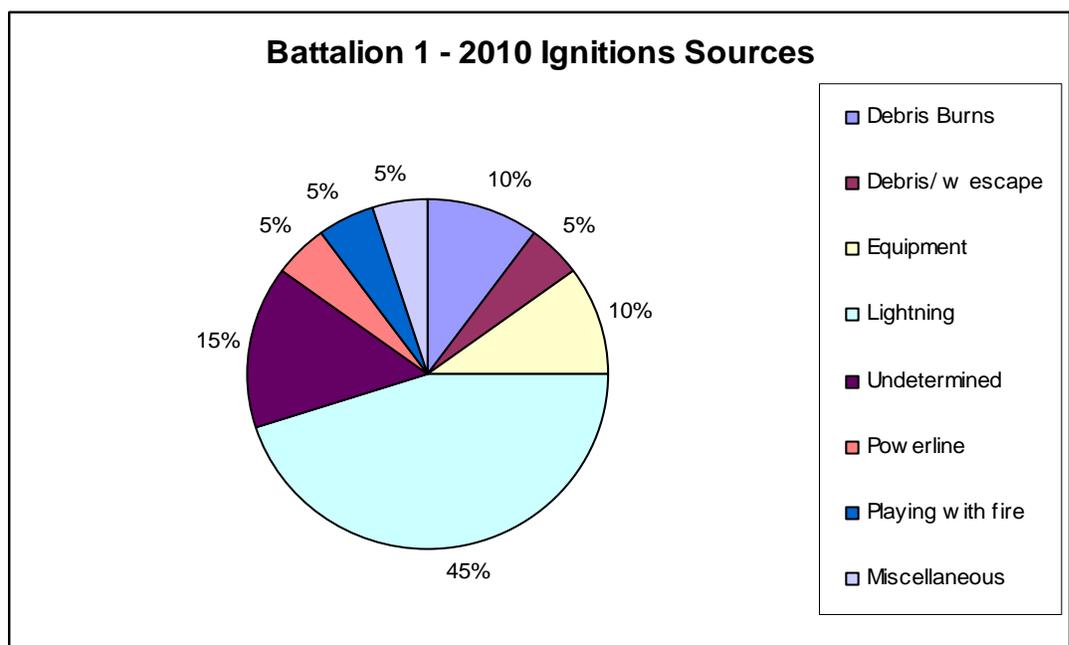
The weather patterns in the Battalion throughout the spring and summer months consist of warm and dry days with a moderate to strong afternoon breeze. During the nighttime hours the temperature usually drops with some relative humidity recovery.

The topography of the Battalion includes portions of the lush, agricultural lands of the Scott Valley floor and extends upward into the timberland of the steep and rugged mountains. The mountain ranges and the local weather patterns support a natural mixture for severe electrical storms throughout most of the summer months. Often times these storms are accompanied with strong winds and can have little to no precipitation associated with them.

The Scott Valley Battalion is fortunate to have several productive Fire Safe Councils which consist of the Lower Scott River FSC, French Creek FSC, Quartz Valley Area FSC, Rattlesnake Creek FSC, and the Scott Bar FSC. Over the past several years these Councils have evolved into a vital part of the hazard mitigation, and emergency response planning within the Battalion. Collectively these Fires Safe Councils have projected and completed several million dollars worth of fuels modifications projects reducing the fire threat in some of our target areas surrounding the foothills of the Scott Valley (See the attached spreadsheet of projected and completed projects within the Battalion).

### 2010 FIRE CAUSES

Debris Burns	2
Debris/ w escape	1
Equipment	2
Lightning	9
Undetermined	3
Power line	1
Playing with fire	1
Miscellaneous	1
<b>Total Fires</b>	<b>20</b>



**FIRE PREVENTION GOALS**

**GOAL # 1**

**Reduce the total fires in the Battalion.**

- a. Advertise fire prevention messages with fire prevention signs along major roadways.
- b. Provide public training through one-on-one public contact.
- c. Educate the public with news releases and radio messages.
- d. Train with local fire departments and fire agencies to achieve common goals.
- e. Participate in local events for educational purposes.
- f. Increase the total number and effectiveness of defensible space inspections, and promote an increasing level of compliance with defensible space laws (PRC4291).
- g. Increase the total number of power line inspections and promote increasing level of compliance with power line laws and regulations (PRC4293).
- h. Analyze trends in fire cause and focus prevention and education efforts to modify behavior and effect change.

**GOAL # 2**

**Minimize fire size and reduce overall damage and costs associated with wildfires.**

- a. Support and assist Fire Safe Councils in identifying, obtaining and executing fuel modification projects throughout the Battalion.
- b. Work with landowners to maintain access roads into remote fire prone areas.
- c. Interact with local timber operators, timberland owners, and resource management staff to identify active timber operations, in an effort to educate and reduce the fire threat from their operations.
- d. Support the availability and utilization of CAL FIRE hand crews and other CAL FIRE resources for fuel management activities including ongoing maintenance of existing fuels modification projects.

**GOAL # 3**

**Identify high hazard areas and plan for defending assets at risk.**

- a. Open and maintain existing roads that lead into high fire prone areas.
- b. Preplan with collaborators to produce evacuation and safe refuse areas within the Battalion.
- c. Facilitate activities with individuals and organizations, as appropriate, to assist individual property owners in complying with fire safe regulations.
- d. Provide a direct community presence in high fire prone areas. Articulate and promote to homeowners and landowners the concept of land use planning, as it relates to fire risk and living within the WUI.

## **SCOTT VALLEY BATTALION**

### ***LIST OF STAKEHOLDERS***

- Residents within the Battalion
- Property owners within the Battalion
- Various Fire Safe Councils
- Timber owners
  - Fruit Growers Supply Company
  - Timber Products
  - Timber Vest
  - Jeld-Wen
  - Roseberg
  - Mason, Bruce & Girard
  - U.S. Forest Service, Klamath National Forest
  - BLM
- Siskiyou County Fire Departments
  - Scott Valley FPD
  - Etna FD
  - Fort Jones FD
  - Happy Camp FD
  - Seiad Valley Fire Company
  - Klamath River Fire Company
  - Salmon River Fire Company
  - CAL FIRE
  - USFS Fire
- City of Etna
- City of Fort Jones
- Town of Greenview
- Town of Callahan
- Cal-Trans Highway 3
- Pacific Power & Light (PacifiCorp)
- Siskiyou County Road Department

## **SCOTT VALLEY BATTALION**

### **Pre-Fire Management Solutions**

General description of the agreed on target areas:

Key points of the local fire problem – Extremely large area (387,000 acres), one CAL FIRE Station in the Battalion, Inaccessible terrain, and/or long travel times, High occurrence of lightning activity and lightning caused fires.

General description of the desired future condition:

Continue to improve and maintain existing fuel breaks. Concentrate on the fuel breaks which are located in close proximity to communities and residences. Work towards modifying fuel breaks to completely envelope these areas.

Maintain and reclaim forest roads that access areas prone to high lightning activity. Maintain and repair bridges, culverts, and water crossings.

Maintain water storage tanks originally constructed for fire use. Assess the need for water sources in other areas of the Battalion where water is scarce.

Refer to the Siskiyou Unit's Fire Plan for a detailed list of pre fire projects within Battalion 1.



# ***CAL FIRE***

## **SHASTA VALLEY BATTALION**

### ***IGNITION MANAGEMENT PLAN***



#### **EXECUTIVE SUMMARY:**

The Shasta Valley Battalion is centrally located in the northern part of Siskiyou County with the north end bordering the State of Oregon and the Units Battalions 1 and 3 to the south. The east and west borders the Klamath National Forest (KNF) with several thousand acres of State Responsibility Area (SRA) extending into the KNF DPA. The Battalion is approximately 484,018 acres; 376,598 acres designated as SRA and 53,420 acres designated as Local Responsibility Area (LRA). It is comprised of the Siskiyou Unit Headquarters Station which houses two fire engines (E2664 & E2669) and one dozer (D2640), the Hornbrook Forest Fire Station which houses two fire engines (E2666 & E2668), and Paradise Craggy Lookout. Hornbrook Forest Fire Station is committed to year round fire protection due to a contract with Siskiyou County as part of the Amador Plan. Both stations are open year round for fire permit issuance and other public services. Paradise Craggy Lookout is only staffed with emergency workers during high fire danger days as well as during and after lightning storms.

Fuel types consist of grass, brush and timber that cover flat, rolling hills, and mountainous terrain. Much of the timberlands are fueled with medium to heavy slash from past logging operations. Interstate 5 and Highways 3, 96, 99, 263, as well as the Central Oregon and Pacific Railroad (CORP) railroad line run through the center of the Battalion. There are several major electrical transmission lines running north-south through the Battalion. The Battalion has a significant wildland urban interface (WUI) problem with many houses dispersed amongst the wildland areas. Due to the significant WUI problem, the lack of immediate water sources, and long travel times, much of the prevention efforts have been focused on reducing the potential for large fire losses by public education and enforcement of the California Public Resource Code Section 4291, which requires up to one hundred feet of fuel reduction/clearance around structures.

The weather patterns in the Battalion throughout the spring and summer months consist of warm and dry days with moderate to strong afternoon winds. The Shasta Valley is very prone to steady strong north winds in the summer and very strong south wind in the winter months. During the nighttime hours the temperature usually drops with some relative humidity recovery.

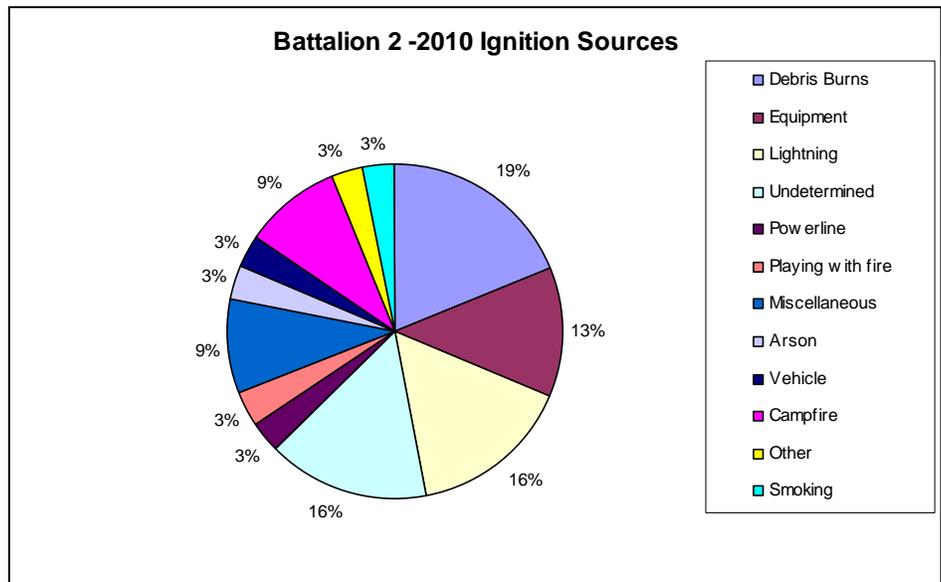
Although the wildland fire statistics do not display fires on LRA land, in past years LRA has hosted many of the Battalion's largest fires that have threatened to burn SRA. Many of these fires were found to have the same causes as the SRA fires.

The Siskiyou Unit is active in local community outreach programs, such as food / toy drives, school programs, Fire Prevention Week programs and public safety messages. Several fire prevention signs are displayed throughout the battalion along major roadways in support of these programs.

Existing Prevention Sign Locations:

- Copco Road near railroad tracks.
- Ager-Beswick Road at Omega Road.
- Ager Road at Yreka-Ager Road.
- Highway A-12 at Mt. Shasta Vista.
- Old Hwy. 99 south of Yreka near South Yreka F.D. (Also visible from Interstate 5)
- Hwy. A-12 east of Grenada.
- Hwy. 263 north of Yreka

Debris Burns	6
Equipment	4
Lightning	5
Undetermined	5
Powerline	1
Playing with fire	1
Miscellaneous	3
Arson	1
Vehicle	1
Campfire	3
Other	1
Smoking	1
<b>Total Fires</b>	<b>32</b>



## **SHASTA VALLEY BATTALION**

### **FIRE PREVENTION GOALS**

#### **Goal #1**

##### **Reduce the total number of fires in the Battalion.**

- a. Advertise fire prevention messages with fire prevention signs along major roadways.
- b. Educate children utilizing school programs.
- c. Public education through public contact and participation in local events.
- d. Public education through news releases.
- e. Public education during burn permits issuance on proper and legal burning techniques.

#### **Goal # 2**

##### **Reduce the impact of large, damaging fires in the Battalion.**

- a. Educate and enforce on proper clearances around structures, per PRC 4291.
- b. California Public Resources Code Section 4291 using the LE-100 inspection program.
- c. Support County and Battalion Fire Safe Councils.
- d. Assist with fuel reduction programs and fuel break projects.
- e. Current fuel break projects- Quail Run, Deer Meadows Road, Oak Valley Drive, Bennett Drive, and Black Mountain.
- f. Support the California Public Resources Code Section 4290 program, which applies to new construction, to develop safer exit and egress to structures by establishing road and address standards, develop water supplies for emergency use, and delineate setbacks for fuel break / greenbelt development.

#### **Goal # 3**

##### **Reduce the number of campfire escapes.**

- a. Educate the Public using media and public contact.
- b. Post signs in all campgrounds.

***LIST OF STAKEHOLDERS IN THE  
SHASTA VALLEY BATTALION***

- Residents within the Battalion
- Property owners within the Battalion
- Timber owners
- Roseburg Forest Products
- Timber Products
- Fruit Growers Supply Company
- U.S. Forest Service, Klamath National Forest
- BLM Medford
- BLM Redding
- Siskiyou County
- Cal-Trans: Highways 3, 96, 263 and Interstate 5
- Pacific Power & Light (PacifiCorp)
- Central Oregon and Pacific Railroad (CORP)

**Fire Safe Councils**

- Fire Safe Council of Siskiyou County
- Copco/Bogus
- Yreka Area Fire Safe Council
- Guys Gulch Working Group
- Shamrock Working Group
- Greenhorn Working Group
- Rolling Hills Working Group
- Greenhorn Working Group
- Hawkinsville Working Group
- Yreka Working Group
- Black Mountain Fire Safe Council

**Siskiyou County Fire Departments within or bordering with the Shasta Valley Battalion**

- |                               |                                   |
|-------------------------------|-----------------------------------|
| • Hilt Fire Hose Company      | • Copco Fire Department           |
| • Hornbrook Fire Department   | • Mayten Fire Department          |
| • Yreka Fire Department       | • Klamath River Fire Hose Company |
| • South Yreka Fire Department | • Klamath National Forest         |
| • Montague Fire Department    | • Black Mt. Fire Department       |
| • Grenada Fire Department     | • Oregon Dept. of Forestry        |

## Cities and Communities within the Shasta Valley Battalion

- City of Yreka
- City of Montague
- Town of Grenada
- Town of Hornbrook
  
- Community of Klamath River Country Estates
- Community of Copco
- Community of Klamath River
- Community of Big Springs
- Community of Little Shasta
- Community of Hilt
- Community of Colestine

## **Pre-Fire Management Solutions**

General description of the desired future condition:

Resume the fire prevention messages with signs, school programs, news releases, meetings and local events, maintaining a positive presence within the community through the use of these programs.

Continue to improve and maintain existing fuel breaks. Concentrate on the fuel breaks which are located in close proximity to communities and residences. Work towards modifying fuel breaks to completely envelope these areas for protection as well as a means of egress and ingress.

Maintain and reclaim forest roads that access areas prone to high lightning activity. Repair, clear roads, and water crossings.

Assess the need for water sources in areas of the Battalion where water is scarce.

Refer to the Siskiyou Unit's Fire Plan for a detailed list of pre-fire projects within Shasta Valley Battalion



# **CAL FIRE**

## **BUTTE VALLEY / WEED BATTALION**

### **IGNITION MANAGEMENT PLAN**



#### **EXECUTIVE SUMMARY:**

The Butte Valley-Weed Battalion (Battalion 3) is a compilation of two state fire stations and one Administrative Captain assigned to the City of Weed Fire Station. The staffing for the Battalion is as follows: a Battalion Chief (Battalion 2613), *Weed Station*: Two permanent Fire Captains, two permanent Fire Apparatus Engineers and one Limited Term (LT) Fire Apparatus Engineer. Approximately 10 to 14 seasonal firefighters complete the peak summer staffing. The Fire Apparatus assigned to Weed, are as follows E2663 (Model # 14) and E2676 (Model # 15). *Macdoel Station*: is staffed during fire season, with two Fire Captains and one Limited Term Relief Fire Captain. Approximately five to nine seasonal firefighters complete the station summer staffing. The fire engine at the Macdoel station is Engine 2660 (Model #34). *Weed City*: 1 Administrative Fire Captain (Captain 1201).

There are approximately 364,000 acres of Direct Protection Area in the Battalion. The fuel types range from timber to junipers to desert sage. Most areas are arid with minimal surface water available for fire fighting. There are many areas with poor access due to volcanic geographic features. Most of the vegetation cover needs windy and dry conditions to burn intensely. The weather presents this condition many days throughout the year.

Most of the residents are in the cities of Weed, Dorris, Tulelake, and the communities of Macdoel, Gazelle, Lake Shastina, Hammond Ranch, and the Carrick Subdivision located northeast of Weed. Interstate 5 and State Highway 97 run through the Battalion with heavy traffic during most times of the day. The Union Pacific (UP) Railroad has tracks through the Weed area and through the Butte Valley. The Central Oregon and Pacific Railroad (CORP) has tracks from Weed heading North through the Shasta Valley. There are several sets of major electrical transmission lines that run north - south through the Battalion.

The City of Weed and the Lake Shastina Area has and will continue to be a high priority in the Battalion for Fire Safe Projects. The City of Weed has been continually working on a fuel break around the city. Some of the issues in Weed City and Lake Shastina Area are small lots, five-foot setbacks for homes, and many un-cleared undeveloped lots adjacent to homes. The area is surrounded by vast brush fields and timber which experiences high winds many days of the year.

There is an active Fire Safe Council in the Lake Shastina Area. The Fire Safe Council has been instrumental in fuel modification projects throughout the community with the assistance of grant funding. The Fire Safe Council has also helped with the development of a community evacuation plan, and was instrumental in the development of a new access road into the Lake Shastina subdivision.

The Mount Shasta Vista Fire Safe Council is providing grant funded "chipper days" to assist the residents with their fuel reduction projects. There is also a cooperative effort with the Klamath National Forest and the Shasta National Forest to develop borderline fuel reduction projects with the community.

The Greater Weed Area Fire Safe Council continues to work on completing the fuel break around the City of Weed and unincorporated area of Weed. Several Grant funded projects have been funded to improve emergency evacuations of the Hammond Ranch subdivision as well as a shaded fuel break. Additional grant projects are being proposed to improve ingress and egress as well as additional water storage for fire suppression.

Butte Valley Fire Safe Council was awarded two grants. The first one is to put in a water tank at Pleasant Valley Fire Station and upgrade the existing well. The second grant is to put in a shaded fuel break along two of the subdivisions main roads.

## **BUTTE VALLEY/WEED BATTALION**

### **FUEL REDUCTION PROJECTS AS OF 2010**

#### **Weed City:**

1. Grant Funded Fuel Reduction projects along major travel routs: Ongoing
2. College of the Siskiyou Fuel Reduction throughout Weed campus: Ongoing
3. CAL-TRANS right of way maintenance on State Highways: Ongoing
4. Maintenance of previously completed fire break on the East side of Weed: Planning

#### **Hammond Ranch:**

1. Dale Creek Road Fuel Reduction: Ongoing
2. Phase I of Hammond Ranch Fuel Reduction Grant: Ongoing
3. Phase II of Hammond Ranch Fuel Reduction Grant: Ongoing
4. Resource Advisory Council (R.A.C.) Grant funded Water Storage : Ongoing
5. Railroad Right of Way Maintenance: Planning

#### **Mount Shasta Vista:**

1. Resource Advisory Council (R.A.C) Grant Funded Chipper Days: Ongoing
2. Grant funded Subdivision Access and Egress fuel reduction: Ongoing
3. Resource Advisory Council (R.A.C) Grant funded Water Storage: Ongoing
4. USFS Klamath A-12 Project Fuel Reduction: Ongoing

#### **Lake Shastina:**

1. Easement Maintenance and fuel reduction, shaded fuel breaks; Ongoing
2. Fuel reduction on major travel routs: Planning
3. Fire Road maintenance: Planning

#### **Butte Valley:**

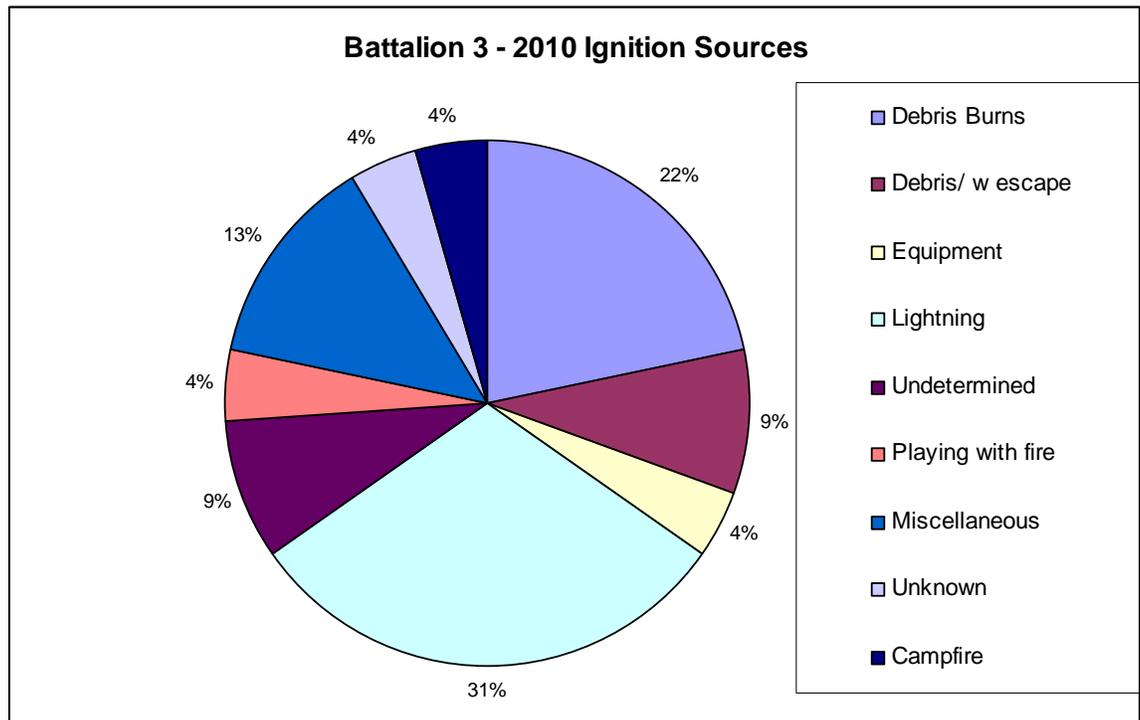
1. Resource Advisory Council (R.A.C) Grant Funded fuel reduction in Pleasant Valley Subdivision: Ongoing
2. Resource Advisory Council (R.A.C) Grant Funded Water Storage: Ongoing
3. Border Fuel reduction cooperation with Oregon Dept of Forestry: Planning

**BUTTE VALLEY/WEED BATTALION**

**EMERGENCY INCIDENTS BATTALION 3 (SRA)**

**FIRE CAUSES  
2010**

	Number by Causes	Acres Burned
Undetermined	3	1
Lightning Fires	7	.6
Campfires	1	0
Smoking	0	0
Debris Burning	7	.7
Arson	0	0
Equipment Use	1	11
Playing With Fire	1	0
Vehicle Fires	0	0
Railroad	0	0
Power Lines	0	0
Miscellaneous	3	3
<b>Total:</b>	<b>23</b>	<b>16.3</b>



**BUTTE VALLEY/WEED BATTALION**

**FIRE PREVENTION GOALS**

**GOAL # 1**

**To reduce the total fires in the Battalion:**

- a. Advertise fire prevention messages with fire prevention signs along major roadways.
- b. LE-100 Inspections.
- c. Educate children utilizing school programs.
- d. Public education through public contact and Fire Safe Council outreach.
- e. Participation in local events.
- f. News releases.

**GOAL # 2**

**Reduce the impact of a large fire in the Battalion:**

- a. LE-100 inspections.
- b. Fire Safe training to home-owner groups and other community groups.
- c. Assist with fuel reduction programs and fuel break projects.
- d. Obtain funding to perform or contract the work done for fuels projects.
- e. Support the PRC 4290 and 4291 Program.
- f. Support Fire Safe Councils.
- g. Improve and develop water storage for fire suppression.

**GOAL # 3**

**Instill Fire Prevention Goals and State Regulations to local Government Fire Depts.**

- a. Jointly train and help local government fire departments.
- b. Assist in prevention, planning and protection to local government.
- c. Assist with media handouts and information material.

## ***LIST OF STAKEHOLDERS***

### **BUTTE VALLEY/WEED BATTALION**

- Residents within the Battalion
- Property owners within the Battalion
- Timber owners
  - Roseburg Forest Products
  - Sierra Pacific Industry
  - Hearst Corporation
  - Hancock/Olympic Forests
  - Timber Products
  - U.S. Forest Service, Klamath National Forest
  - U.S. Forest Service, Shasta-Trinity National Forest
  - BLM
  - Siskiyou County
- Siskiyou County Fire Departments (Auto/Mutual Aid Agreements)
  - Weed FD
  - Lake Shastina CSD
  - Gazelle FD
  - Butte Valley FD
  - Dorris FD
  - Hammond Ranch FC
  - Mount Shasta Vista FC
  - Pleasant Valley FC
  - Tulelake FD
  - Tennant CSD
  - USFS Fire (KNF and SHF)
  - CAL FIRE
  - Oregon Department of Forestry (ODF)
- Cities and Communities
  - City of Weed
  - City of Dorris
  - City of Tulelake
  - College of the Siskiyou's
  - Town of Gazelle
  - Town of Macdoel
  - Town of Tennant
  - Town of Edgewood
  - Mount Shasta Vista Subdivision
  - Carrick Addition Subdivision
  - Pleasant Valley Subdivision
  - Lake Shastina CSD
  - Rancho Hills Subdivision
  - Hammond Ranch
- Additional Cooperators
  - CAL- TRANS
  - California Department of Fish and Game
  - Pacific Power & Light (PacifiCorp)
  - Siskiyou County
  - Union Pacific Railroad (UP)
  - Lake Shastina CSD / Rancho Hills Subdivision
  - Boyd Farms
  - Shasta Valley Farms
  - Lassen Canyon Nursery
  - Red Rock Ranch
  - Sierra Pacific Ranches
  - Rocky Mountain Elk Foundation
  - College of the Siskiyou

## **BUTTE VALLEY/WEED BATTALION PRE-FIRE MANAGEMENT SOLUTIONS**

Key points of the local fire problem – Extremely large area (364,000 acres), only two CAL FIRE Fire Stations in the Battalion, inaccessible terrain and/or long travel times. High occurrence of lightning activity and lightning caused fires. Area is subject to high winds creating fast moving fires with long range spotting potential.

General description of the future condition:

Continue to improve and maintain existing fuel breaks and fuels modification projects. Concentrate on fuel breaks and fuels modification projects that are located in close proximity to communities and residences. Work towards expanding fuel breaks and fuels modification projects to completely envelop high-risk areas.

Maintain and reclaim forest roads that access areas prone to lightning activity.

Maintain water storage tanks originally constructed for fire use. Assess the need for water sources in the Battalion where water is scarce.

Priorities:

1. Lake Shastina Subdivision
2. The Greater Weed Area
3. Mount Shasta Vista and Juniper Valley Subdivisions
4. The Greater Butte Valley Area

Action Plan:

Continue fuel breaks and fuels modification projects around and in the Lake Shastina subdivision, the greater Weed area, the Mount Shasta Vista subdivision, the Juniper Valley subdivision, and Pleasant Valley subdivision. Continue the Greater Weed Fuel Break to eventually encompass Weed City (the area west of Weed City and the Hammond Ranch Subdivision). Maintain a cooperative and supportive working environment with all Fire Safe Councils, Cities, and Stakeholders in the Battalion. CAL FIRE may play a key role in doing these fuel breaks and fuels modification projects by supplying equipment and personnel, if available.



# ***CAL FIRE***

## McCloud Battalion Ignition Management Plan



### ***Description:***

Battalion 4 is located in Southern Siskiyou County and parts of northern Shasta County. Total acreage in the Battalion is 267,855 acres. Two fire stations are maintained in Battalion 4. The McCloud Station is a year round station located on Squaw Valley Road in McCloud. The Pondosa Station is a seasonal station located on Highway 89, four miles from the old logging mill town Pondosa. Pondosa Station is also responsible for the maintenance and operations of Siskiyou Bear Lookout located on Bear Mountain. During fire season both stations are equipped with two fire engines. McCloud Station operates E2662 (model #14) and E2659 (model #34) and Pondosa Station operates E2661 (model #34) and E2667 (model #14).

A Battalion Chief (B2614), three Fire Captains (FC) and four Fire Apparatus Engineers (FAE), staff battalion 4. During the summer months the staffing is augmented by seasonal employees including one FC, two LT FAE and up to twenty-eight seasonal Firefighters.

The State Responsibility Area (SRA) within Battalion 4 is made up of both private and federal lands, almost entirely timber. The Fire Hazard Ranking for Battalion 4 is High and Very High. Wildland Urban Interface (WUI) challenges exist within Battalion 4 around the communities of Dunsmuir, Mt. Shasta and McCloud. Of particular concern are the rural areas on the east side of Mt. Shasta City, and in Mount Shasta Forest and Wilderness Estate subdivisions to the east of McCloud. Within the past year, Battalion 4 has added 33,000 acres to its Direct Protection Area (DPA) through a land swap with the United States Forest Service, which now incorporates the areas of concern into Battalion 4 response area.

## ***Completed/ongoing major Fire Prevention projects within Battalion 4:***

### Water Supply Projects

- CAL FIRE McCloud is coordinating and assisting residents in the Mt. Shasta Forest subdivision with the installation of 2500 gallon water tanks for fire protection. To date, 18 tanks are placed and filled.
- CAL FIRE McCloud is working with the Fire Safe Council to apply for Resource Advisory Council (RAC) Grants to establish additional water supply in the McCloud area.
- Projects include building a 10,000-gallon water tank near Warm Castle located on Squaw Valley Road, establishing a dry hydrant system on Spring Meadows Road, and installing a connection to the Esperanza tank on Esperanza Road so the water supply will be accessible during the winter months for fire protection in the Wilderness Estates subdivision.

### Fuel Breaks (as of 2011)

- **McCloud Phase I** – NW Fuel break is located along Highway 89, the M-15 Road and the Railroad in McCloud. Total Acreage 83, completion 2002. The Phase I Fuel break received a maintenance grant and was completed in 2007. The North part of the fuel break is in need of another maintenance grant.
- **McCloud Phase II** – East Fuel break is located on Truck Shop Road in McCloud. Total Acreage 31, completion 2004. Currently the land has undergone a parcel split and has been put up for sale to develop a subdivision.
- **McCloud Phase III** – South Fuel break is located along Squaw Valley Road and the M-3 Road in McCloud. Total Acreage 52, completion 2006.
- **McCloud Phase IV** – Huckleberry Ridge Fuel break is located East of McCloud Station and incorporates the Phase III Fuel break to protect the residents on Squaw Valley Road, Memeo Road, Spring Meadows Road, Shasta Pines Road and Big Fir Road. Total Acreage 104, completion 2006. Phase IV Fuel break received a maintenance grant and was completed in 2008. Station personnel continue to work on this fuel break absent of a grant.
- **Shasta Forest I** – This is the newest Fuel break that has been constructed in the McCloud area and is located in the center of the Mt. Shasta Forest subdivision. Total acreage 185, completion 2008.
- **Lake Siskiyou Phase V** – Is a maintenance grant for utilizing goats to minimize the growth of vegetation on an established fuel break.

- **Azalea Phase I** – This Fuel break is along the East side of I-5 on the CAL TRANS right of way south of Mt. Shasta and north of Dunsmuir. This Fuel break will provide fire protection to a subdivision from vehicle related ignitions that occur on I-5 in that area. Total acreage 40, completion date 2012.
- **Rainbow Ridge Phase I** – This Fuel break is located west of the city of Mt. Shasta. This project is on Sierra Pacific Industry Land and it will clean up a logging operation and will establish a shaded fuel break along the ridgeline. Total acreage 20, completion date 2010.

McCloud Fire Safe Council

- Establish a program in the McCloud Battalion to assist senior citizens and disabled to ensure compliance of the PRC 4291 requirements of 100 feet of defensible space clearance from every building or structure that is used for support or shelter of any use or occupancy.
- Identify maintenance needs for established fuel breaks in the McCloud area.
- Apply for grants to establish additional water supplies in the Squaw Valley Road area.

Mt. Shasta Fire Safe Council

- **Southwest Mt. Shasta Fuel Reduction Project** – 50 acres of fuel reduction along emergency evacuation routes and homes along South Old Stage Road from Cantara Road, north and to the west end of Remour Lane. Fire safe education of homeowners is a key component. Completed 2011
- A masticator will complete the West Azalea Fuel Break.
- Crews will be utilized to complete East Azalea Fuel Break.
- Rainbow Ridge – Phase II has been cut & piled.

Dunsmuir Fire Safe Council

- Fishing Access (Prospect Way) Fuel Break
- Dunsmuir City Park thinning project is complete.
- Working on homeowner agreements in order to begin the Shasta Retreat Fuel Break project.
  - Hobo Camp Fuel Break project along railroad tracks below Manfredi's Gas station.

**2011 Battalion 4 Fire Prevention Objectives:**

- Work with the Mt. Shasta Forest Property Owners Association to build a fire station to house and place water tender in the subdivision. Siskiyou County General Fire applied for Assistance to Firefighter grant to assist

- Mt. Shasta Forest Volunteers purchase a water tender. This will be a two-three year project.
- Provide address signs for the greater McCloud area to ensure that all residence are PRC 4291 compliant.
  - Encourage water supply development for fire protection in the rural areas.
  - Update and post fire prevention signs.
  - Participate in Mt. Shasta and McCloud Fire Safe Council.
  - Patrol Lake Siskiyou during Fourth of July fireworks.
  - Participate in Mt. Shasta and McCloud community events, such as Fourth of July, Forest Festival, Mushroom Festival, Dog and Pony Parade, Civil War days and Christmas activities.
  - Visit Mt. Shasta and McCloud schools as requested.

## **BATTALION 4**

### ***Fire Prevention Goals***

#### **GOAL #1**

##### **Prevent loss of life and property within the Battalion.**

- Actively seek opportunities to provide fire safety information to the public.
- Continue participation in programs that are already established.
- LE-100 inspections.
- Update maps on water source and fuel breaks.

#### **GOAL #2**

##### **Prevent human caused fires by providing homeowners and stakeholders with information about safe burning practices and current burn regulations.**

- All employees will be well versed in current burn policies.
- Collect all fire plans from timber companies, ensure employees are familiar with locations of logging operations and access.
- Public education through public contact.
- Distribute Wildfire Safety brochure.

#### **GOAL #3**

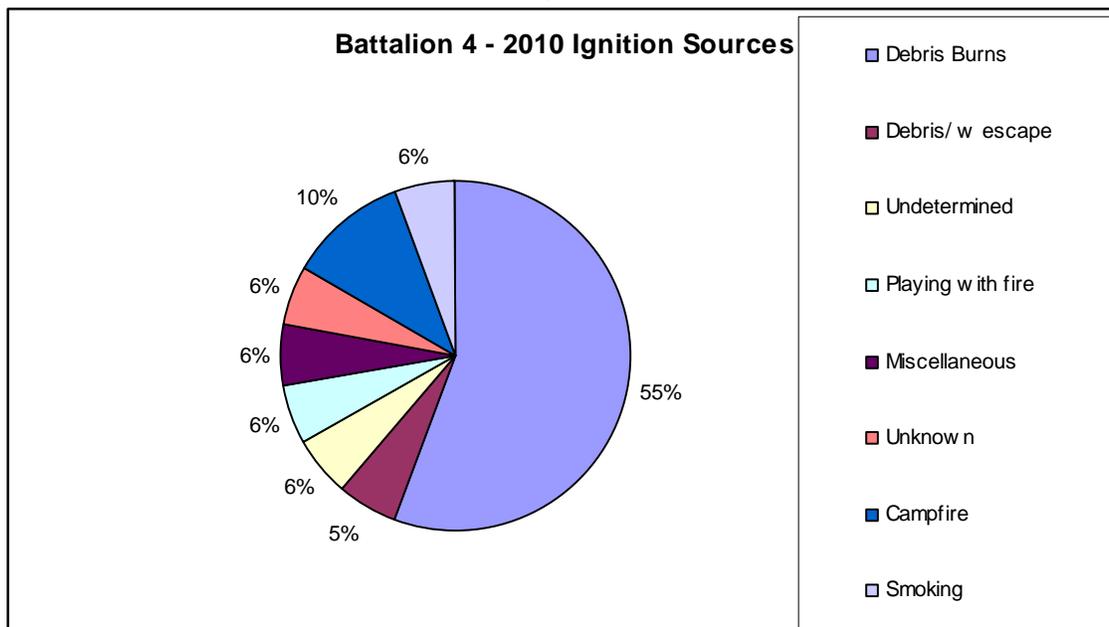
##### **Reduce the impact of large fires in the Battalion.**

- Maintain Siskiyou Bear Lookout for staffing during lightning and high fire danger days.
- Assist and participate with fuel reduction programs and fuel break projects.
- Assist in maintaining the vast road system in the Battalion.
- Support and assist the Fire Safe Council both Mt. Shasta and McCloud.

# BATTALION 4

## SRA Fires and Causes

	2009		2010	
	Number By Cause	Acres Burned	Number By Cause	Acres Burned
Undetermined	3	.10	2	.10
Lightning	16	4.088	0	0
Campfire	2	.009	2	0
Smoking	0	0	1	.1
Debris Burning	1	.25	10	.30
Debris W/Escape	0	0	1	.30
Miscellaneous	0	0	1	.1
Playing w/fire	0	0	1	0
Vehicle	6	1.15	0	0
Railroad	0	0	0	0
Power	1	.10	0	0
Fireworks	1	.30	0	0
<b>Total</b>	<b>30</b>	<b>6.0</b>	<b>18</b>	<b>0.9</b>



# BATTALION 4

## *List of Stakeholders*

- Residents
- Property Owners
- Timber Companies
  - Hancock Forest Management
  - Hearst Corporation
  - Campbell Timberland Management
  - Bascom Realty
  - Roseburg Forest Products
  - Sierra Pacific Industry
  - W.M. Beatty and Associates
- USFS Shasta Trinity National Forest
- BLM
- Siskiyou County
- McCloud Zone of Increased Benefit (ZIB)
- Mt. Shasta Forest Property Owners Association
- McCloud River Railroad
- Willow Creek Ranch
- City of Dunsmuir
- City of Mt. Shasta
- Town of McCloud
- Fire Departments
  - McCloud Community Service District
  - Mt. Shasta City Fire Department
  - Mt. Shasta Fire Protection District
  - Dunsmuir Fire Department
  - Mt. Shasta Forest Volunteers