

Report to Nevada State Legislature SB-94

Review and Evaluation of Laws and Regulations
Pertaining to Fire Protection in
Lake Tahoe and Lake Mead Basins.



























Overview

Senate Bill No. 94 directed Nevada Division of Forestry to review and evaluate the laws and regulations of this State to ensure adequate statutory and regulatory authority exists to mitigate the risk of fire hazard from vegetation within the counties contained in the Lake Tahoe Basin and the Lake Mead Basin.

The Nevada Division of Forestry, in cooperation with the State Fire Marshal's Division, conducted a survey in February 2010 of twelve (12) Fire Protection Districts and Fire Departments, and eleven (11) other agencies with jurisdiction in whole or in part for the Lake Tahoe Basin and the Lake Mead Basin in this State. The survey focused on reviewing laws, regulations, and authorities; evaluating adequacy for fire safety and fire prevention; and current funding mechanisms. The Nevada Division of Forestry followed up the survey with interviews, and facilitated open discussion with each Fire Protection District and Fire Department, to fully understand the existing laws and regulations pertaining to hazardous fuels and wildland fire prevention in the two Basins, and to identify recommendations for areas of improvements.

State Fire Marshal

The State Fire Marshal sets the minimum fire and building codes applicable in the State of Nevada, allowing the local jurisdictions to adopt more stringent codes if they choose. They coordinate with the State Forester Firewarden in the preparation of regulations relating to standards for fire retardant roofing materials pursuant to paragraph (e) of subsection 1 of NRS 472.040 and the mitigation of the risk of a fire hazard from vegetation in counties within or partially within the Lake Tahoe Basin and the Lake Mead Basin (NRS Chapter 477.030). The State Fire Marshal has the responsibility of enforcing all laws and adopted regulations related to the prevention of fire. This is done by adopted codes and standards used in the construction of new facilities to ensure they are built in a manner that will reduce the risk of fire, and/or if a fire does occur, the ability of the structure to contain the fire to area of origin. The State Fire Marshal is also tasked with the responsibility to inspect or cause to inspect State owned or occupied buildings, and other building occupancy types, as outlines in NRS 477.030 subsection 1 paragraph (c), to ensure that they are maintained in a manner that prevents fire and provides adequate means of access and egress from the facility.

NRS Chapter 477.030 of the State Fire Marshal and NRS Chapter 472.040 and Chapter 472.100 of the State Forester Firewarden both regulate fire retardant roofing materials. The State Fire Marshal's regulations are statewide, while Nevada Division of Forestry's regulations are Tahoe specific

Lake Tahoe Basin

There are three (3) Fire Protection Districts, one (1) Fire Department, and the State Fire Marshal with statutory responsibility for the mitigation of fire hazards and risk on the Nevada side of the Lake Tahoe Basin. These entities are Sierra Forest Fire Protection District (NDF), North Lake Tahoe Fire Protection District, Tahoe Douglas Fire Protection District, and Carson City Fire Department. They were formed under various Nevada Revised Statues (NRS) to include: NRS Chapter 244 (Counties: Government), NRS Chapter 265 (Incorporation and Disincorporation of Cities and Towns), NRS Chapter 318 (General Improvement), NRS Chapter 472 (State Forester Firewarden), NRS Chapter 473 (Fire Protection Districts Receiving Federal Aid), and NRS Chapter 474 (County Fire Protection Districts).

The survey (Attachment A) found areas of consistency in the codes and regulations that have been adopted throughout the Lake Tahoe Basin. All of the Fire Protection Districts and Fire Departments have adopted the

2006 International Fire Code and International Building Code (Appendix) for vegetation management and fuels reduction. They also adhere to laws and regulations adopted in Nevada Revised Statue (NRS) Chapter 477 (State Fire Marshal) as well as the codes and regulations of Tahoe Regional Planning Agency (Appendix). North Lake Tahoe Fire Protection District is the only entity within the Lake Tahoe Basin that has also adopted, and is currently enforcing, regulations under the 2003 International Wildland-Urban Interface Code (Appendix).

The Fire Protection Districts and Fire Departments would like a single Wildland-Urban Interface Code applied throughout the Basin to provide consistent and effective vegetation management and wildland fire protection through adequate statutory and regulatory authority. The entities recognize that the new code will require enforcement monitoring and other regulatory activities that they are currently not able to adequately fund.

With the existing funding and current economic situation, all of the entities are not able to adequately fund wildland fire prevention and fire safety activities and do not have effective means to increase funding.

Lake Tahoe Basin Highlights

- All Fire Departments and Fire Districts have adopted the 2006 International Fire Code and International Building Code. They are supportive of the State developing, establishing and implementing a uniform code, or set of codes, that can be applied across the State while preserving the ability for local jurisdictions to adopt more stringent codes and standards.
- All Fire Departments and Fire Districts would like a single Wildland-Urban Interface Code applied throughout the Basin
- All Fire Departments and Fire Districts indicated that existing funding is not adequate to cover fire safety and prevention activities.
- A majority of the Fire Departments and Fire Districts indicated that the State should be a full partner with local government in fire prevention, fuels management, fire suppression, coordinate, and assist with funding.

Douglas County

Adjacent to the Lake Tahoe Basin is East Fork Fire Protection District, which is the remaining Fire District within Douglas County. They were formed under NRS Chapter 474 and adhere to the laws and regulations adopted in NRS Chapter 477 (State Fire Marshal). They have adopted the 2006 International Fire Code and International Building Code for vegetation management and fuels reduction.

The survey (Attachment B) found that East Fork Fire Protection District would like a single Wildland-Urban Interface Code applied throughout the Basin to provide consistent and effective vegetation management and wildland fire protection through adequate statutory and regulatory authority.

East Fork Fire Protection District does not have consistent funding for wildland fire prevention and fire safety activities. Currently they are utilizing grants (which are limited and not guaranteed year to year) to provide these services.

Douglas County Highlights

• Have adopted the 2006 International Fire Code and International Building Code and are supportive of the State developing, establishing and implementing a uniform code, or set of codes, that can be applied across the State while preserving the ability for local jurisdictions to adopt more stringent codes and standards.

- Would like a single Wildland-Urban Interface Code applied to provide consistent and effective vegetation management and wildland fire protection.
- Indicated that the State should be a full partner with local government in wildland fire prevention, fuels management, wildland fire suppression, coordinate, and assist with funding.

Washoe County

Adjacent to the Lake Tahoe Basin, within Washoe County, five (5) entities are involved in the mitigation of fire hazard risk and vegetation management. These entities are Washoe County, Sierra Fire Protection District (Washoe), Truckee Meadows Fire Protection District, Sparks Fire Department and Reno Fire Department. Washoe County was formed under NRS Chapter 244 (General County) with jurisdiction in unincorporated areas of Washoe County north of Township 22N. Sierra Fire Protection District (Washoe) and Truckee Meadows Fire Protection District were formed under NRS Chapter 474 (County Fire Protection Districts), with Truckee Meadows Fire Protection District having jurisdiction in unincorporated areas of Washoe County south of Township 22N, east of Highway 395. Sparks Fire Department and Reno Fire Department were both formed under NRS Chapter 265 (Incorporation and Disincorporation of Cities and Towns) having jurisdiction within their city limits.

The survey (Attachment C) found consistency in the codes and regulations that have been adopted by the Fire Departments and Fire Districts within Washoe County outside the Lake Tahoe Basin. All entities have adopted the 2006 International Fire Code and International Building Code and adhere to the laws and regulations adopted in NRS Chapter 477 Chapter (State Fire Marshal).

The Fire Departments and Fire Districts would like a single Wildland-Urban Interface Code applied to provide consistent and effective vegetation management and wildland fire protection through adequate statutory and regulatory authority.

With the existing funding and current economic situation, all of the entities are not able to adequately fund wildland fire prevention and fire safety activities and do not have effective means to increase funding

Washoe County Highlights

- All Fire Departments and Fire Districts have adopted the 2006 International Fire Code and International Building Code. They are supportive of the State developing, establishing and implementing a uniform code, or set of codes, that can be applied across the State while preserving the ability of local jurisdictions to adopt more stringent codes and standards.
- A majority of the Fire Departments and Fire Districts would like a single Wildland-Urban Interface Code applied to provide consistent and effective vegetation management and wildland fire protection.
- All Fire Departments and Fire Districts indicated that existing funding is not adequate to cover fire safety and prevention activities.
- A majority of the Fire Departments and Fire Districts indicated the State should be a full partner with local government in wildland fire prevention, fuels management, wildland fire suppression, coordinate, and to assist with funding.

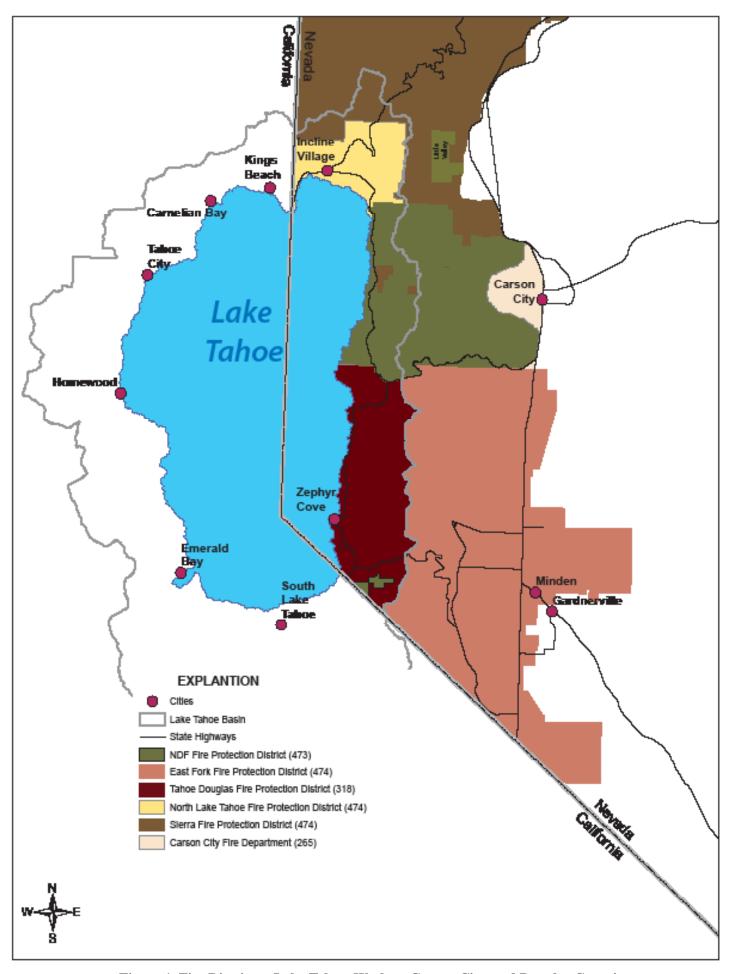


Figure 1. Fire Districts - Lake Tahoe, Washoe, Carson City, and Douglas Counties

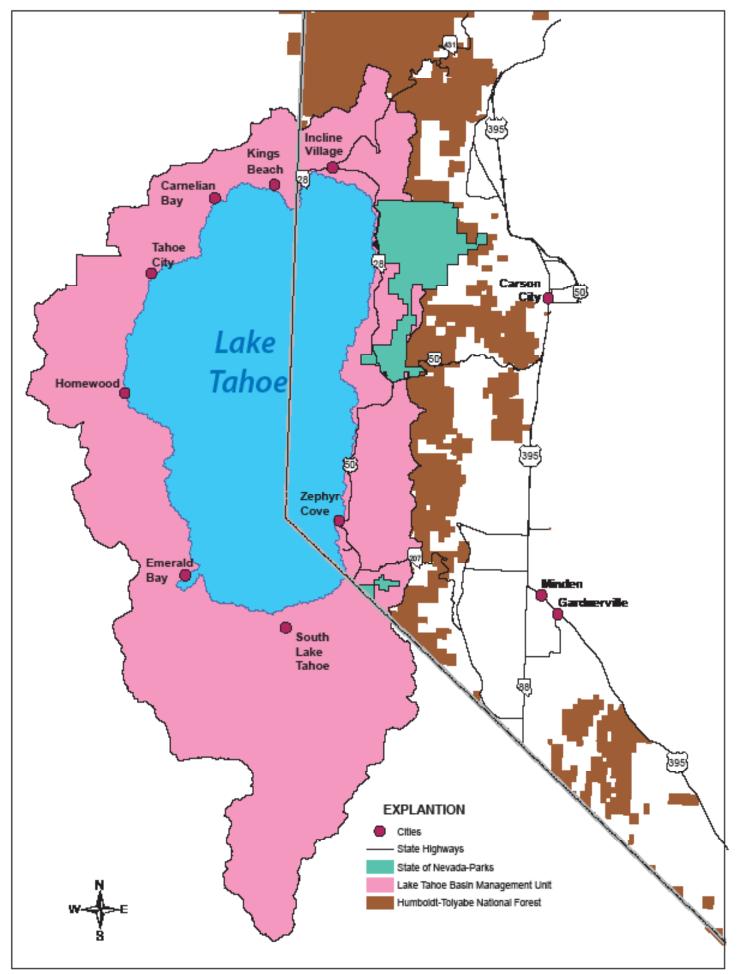


Figure 2. Federal and State Entities in the Lake Tahoe Basin-Carson Range

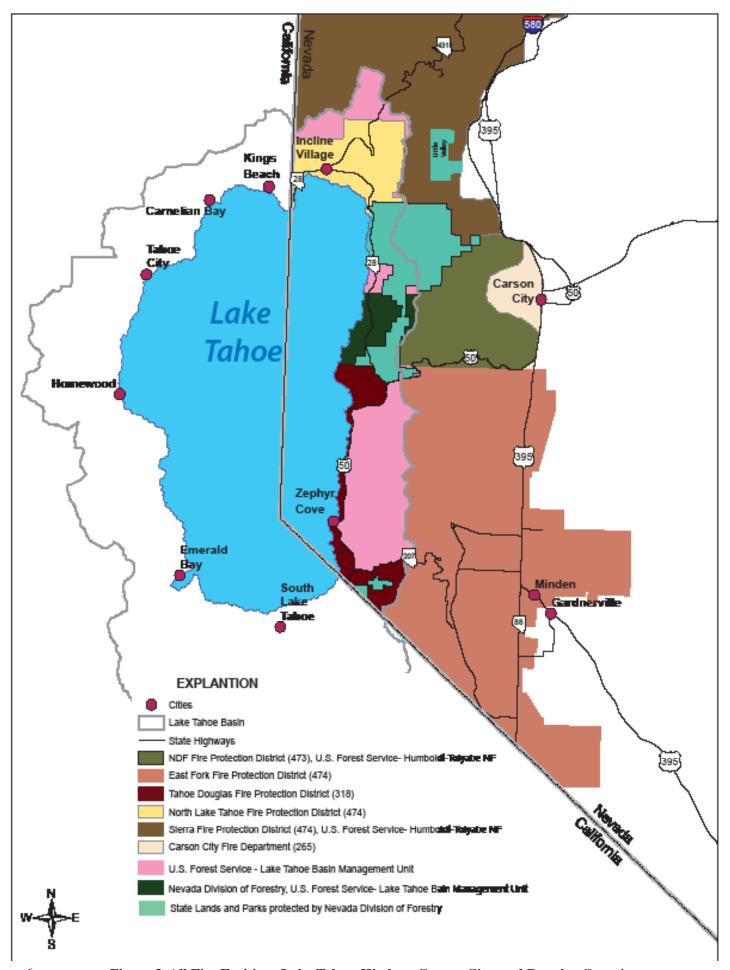


Figure 3. All Fire Entities - Lake Tahoe, Washoe, Carson City, and Douglas Counties

Lake Mead Basin

There are six (6) entities involved in the mitigation of the fire hazard risk in the Lake Mead Basin. These entities are Mt. Charleston Fire Protection District (NDF), Clark County Fire Department, City of Las Vegas Fire Department, City of North Las Vegas Fire Department, City of Henderson Fire Department, and Boulder City Fire Department. The Fire Districts and Fire Departments were formed under different NRS's to include: NRS Chapter 473 (Fire Protection Districts Receiving Federal Aid), NRS Chapter 474 (County Fire Protection Districts), and NRS Chapter 266.310 (General Law for Incorporations of Cities of Towns).

The survey (Attachment D) found a wide variation in the fire codes adopted and enforced by the Lake Mead Basin Fire Protection Districts. Clark County Fire Department and Mt. Charleston Fire Protection District adopted the 2005 Clark County Uniform Code and adhere to the laws and regulations adopted in NRS Chapter 477 (State Fire Marshal) while the City of Las Vegas Fire Department adheres to the NFPA Fire Code. City of North Las Vegas Fire Department, Boulder City Fire Department and City of Henderson Fire Department are in the process of adopting the 2009 International Fire Code and International Building Code with an effective date of July 2011. All of the Lake Mead Basin's Fire Departments and Fire Protection Districts currently do not have any jurisdictional ordinances relating to defensible space and/or vegetation management.

A majority of the Fire Departments and Fire Districts would like to see enforcement of fire codes and regulations by adopting more stringent Nevada Administrative Codes (NACs) from NRS Chapter 472 (State Forester Firewarden). They would also like a single Wildland-Urban Interface Code applied to provide consistent and effective vegetation management and wildland fire protection through adequate statutory and regulatory authority.

With the existing funding and current economic situation, all of the entities are not able to adequately fund wildland fire prevention and fire safety activities and do not have effective means to increase funding.

Lake Mead Basin Highlights

- All Fire Departments and Fire Districts have adopted a version of the International Fire Code. They are supportive of the State developing, establishing and implementing a uniform code, or set of codes, that can be applied across the State while preserving the ability of local jurisdictions to adopt more stringent codes and standards.
- All Fire Departments and Fire Districts would like a single Wildland-Urban Interface Code applied to provide consistent and effective vegetation management and wildland fire protection.
- All Fire Departments and Fire Districts indicated that existing funding is not adequate to cover fire safety and prevention activities.
- Many Fire Departments and Fire Districts indicated the State should be a full partner with local government in wildland fire prevention, fuels management, fire suppression, coordinate, and to assist with funding.

Clark County

Adjacent to the Lake Mead Basin, within Clark County, fourteen (14) entities are involved in the mitigation of fire hazard risk in the NRS Authority of Chapters 318, 473 and 474 Districts. Clark County has the bulk of jurisdiction outside the Lake Mead Basin through thirteen (13) Volunteer Fire Departments covering the majority of rural areas. These 13 Volunteer Fire Departments are under the codes and regulations that Clark County Fire Department adopted to include; 2005 Uniform Fire Code and NRS Chapter 477 (State Fire Marshal). City of Mesquite Fire Department is the only jurisdiction outside Lake Mead Basin, within Clark County, that is currently enforcing regulations under the International Fire Code and the International Building Code (see "Attachment E" for survey results).

The Fire Departments and Fire Districts would like a single Wildland-Urban Interface Code so they can provide effect vegetation management and wildland fire protection through adequate statutory and regulatory authority.

With existing funding and current economic situation, all of the entities are not able to adequately fund wildland fire prevention and fire safety activities and do not have effective means to increase funding.

Clark County Highlights

- All Fire Departments and Fire Districts would like a single Wildland-Urban Interface Code applied to provide consistent and effective vegetation management and wildland fire protection.
- All Fire Departments and Fire Districts indicated that existing funding is not adequate to cover fire safety and prevention activities.
- Many Fire Departments and Fire Districts indicated the State should be a full partner with local government in wildland fire prevention, fuels management, fire suppression, coordinate, and to assist with funding.

Senate Bill 94 Informational Survey - Other Entities of Special Interest

There are other entities involved in the mitigation of the fire hazard risk that have authority adjacent to the various NRS Chapters 318, 473 and 474 Districts in the Lake Tahoe Basin and Lake Mead Basin. The six (6) different entities includes: Tahoe Regional Planning Agency, Humboldt-Toiyabe National Forest, Bureau of Land Management, U.S. Fish and Wildlife Service, National Park Service, and Nellis and Creech Air Force Bases.

Tahoe Regional Planning Agency was congressionally approved and legislatively formed under NRS Chapter 277.220 (Tahoe Regional Planning Compact), while the other agencies were formed under United States Department of Agriculture (USDA), United States Department of Interior (USDI), and United States Air Force (USDA). See "Attachment F" for survey results.

There are federal lands included within portions of the Fire District's and Fire Department's jurisdictions. The federal codes, rules and regulations supersede all Fire Protection District's and Fire Department's codes and regulations on federal lands. The way federal agencies implement their regulations for fuels management and fire suppression on their lands within local government districts has a direct, and sometimes a conflicting impact on consistency in vegetation management in the Lake Tahoe Basin and Lake Mead Basin.

Tahoe Regional Planning Agency's vegetation management codes and regulations overlap and supersede all Fire Protection Districts, State and Federal Lands within the Lake Tahoe Basin. While progress has been made between TRPA and the Fire Districts and Fire Departments, this can further confuse application principles by adding a third level of codes and regulations for vegetation management.

Other Entities of Special Interest Highlights

- All federal agencies follow the Code of Federal Regulations. Each federal agency follows their own Fire Management Plans (policy and procedures). Tahoe Regional Planning Agency enforces laws and regulations through their Tahoe Regional Planning Agency Code of Ordinance.
 - All entities would like the State to provide a greater role enforcing the fire laws and regulations.

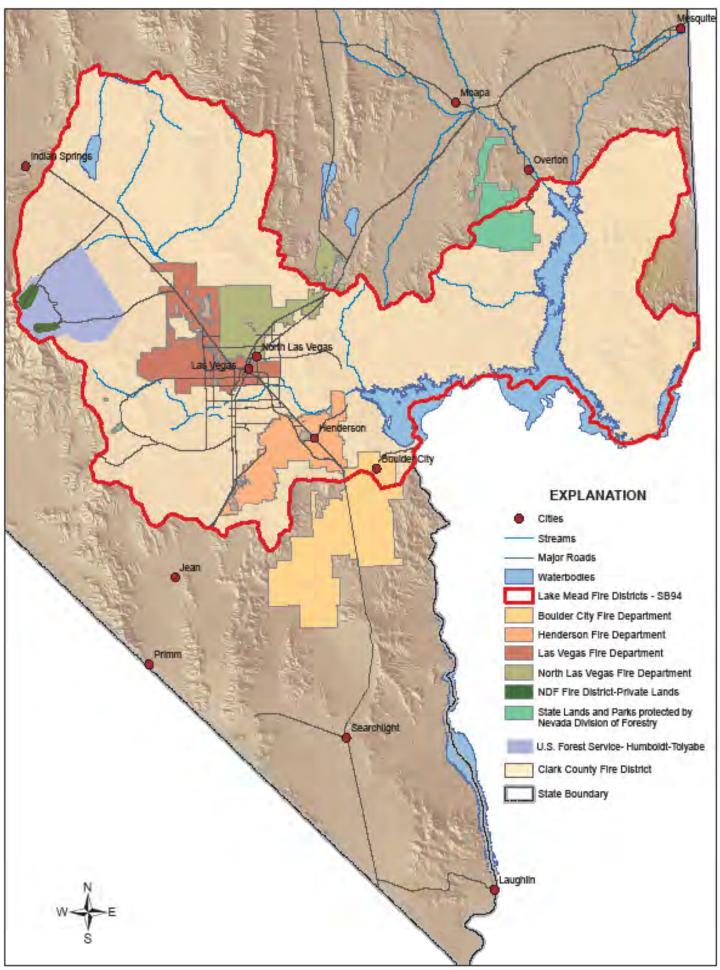


Figure 4. Fire Districts - Lake Mead and Clark County

Recommendations

- 1.) Establish a goal for the adoption of the 2009 International Wildland-Urban Interface Code (IWUIC) across all jurisdictions in Lake Tahoe Basin and Lake Mead Basin consistent with their ability to fund, staff and implement the elements of the IWUIC. The IWUIC establishes minimum regulations consistent with nationally recognized good practices intended to mitigate the risk to life and property or improvements from the intrusion of fire from wildlands. This code supplements the agency's jurisdiction on buildings and fire codes by providing regulations to mitigate the fire and life safety hazards of the Wildland–Urban Interface areas.
- 2.) To provide consistency with cooperating state and local agencies the existing regulation of roof covering materials in fire hazard areas by the State Forester Firewarden (NRS 472) should be updated to correlate with the respective Community Wildfire Plans developed by county and local agencies for all areas rated as either extreme or high fire hazard.
- 3.) Revise NRS Chapter 472.040 Powers and Duties of State Forester Firewarden to include direct responsibility for wildland fire prevention and suppression on State owned lands.
- 4.) In conjuntion with Nevada local governments, municipal and county fire departments and fire districts the State Forester Firewarden shall assess and explore opportunities to improve the delivery and implementation of NRS Chapter 472 and 473.
- 5.) Develop appropriate NAC's for the NRS Chapter 472 (State Forester Firewarden) to provide consistent codes and regulations for enforcing fire protection and vegetation management.
- 6.) Explore alternatives for Division utilization of the Forest Fire Suppression and Emergency account to include authorization for the State Forester Firewarden to utilize funds on expenses necessary to protect life, property and natural resources from fire, flood and other natural or human caused emergencies, through agreements with cooperating local governments with jurisdiction for wildland fire suppression within Lake Tahoe Basin, Lake Mead Basin, and throughout the state.
- 7.) Direct the Nevada Division of Forestry to complete a Statewide Fire Study, similar in scope to SB-94, with recommendations for improvements and efficiencies in wildland fire prevention and suppression and identification of funding mechanisms to implement.
- 8.) Explore the potential of an agreement with Clark County for the Las Vegas Wash, and associated wildlands, that authorizes or directs Nevada Division of Forestry to assume wildland prevention and suppression responsibilities with funding provided by Clark County, without impacting City and County Fire Department responsibilities.

APPENDIX

Summaries of Codes/Regulations/Statues/NRS/NAC

International Code Council (ICC)

The International Code Council (ICC) was established in 1994 as a not-for-profit organization dedicated to developing, maintaining, and supporting a single national set of comprehensive and coordinated model building and construction codes. Its mission is to provide the highest-quality codes, standards, products, and services for all concerned with the safety and performance of the built environment. (Preface to the "Significant Changes to the International Fire Code, 2009 edition")

The International Code Council (ICC), a membership association dedicated to building safety, fire prevention and energy efficiency, develops the codes used to construct residential and commercial buildings.

(Wikipedia, International Code Council)

International Code Council publishes 13 codes they are:

- 1. International Building Code
- 2. International Residential Code for One-and Two-Family Dwellings
- 3. International Mechanical Code
- 4. International Plumbing Code
- 5. International Fire Code
- 6. International Fuel Gas Code
- 7. International Energy Conservation Code
- 8. International Existing Building Code
- 9. International Wildland-Urban Interface Code
- 10. International Performance Code for Buildings and Facilities
- 11. International Property Maintenance Code
- 12. International Zone Code
- 13. International Private Sewage Disposal Code

International Fire Code (IFC)

This comprehensive fire code establishes minimum regulations for firefighter safety, fire protection systems, and safe storage and use of hazardous materials using prescriptive and performance-based provisions. It is founded on broad-based principles that make possible the use of new materials and new building designs.

(Preface to the "Significant Changes to the International Fire Code, 2009 edition")

The purpose of this code is to establish the minimum requirements consistent with nationally recognized good practice for providing a reasonable level of life safety and property protection from the hazards of fire, explosion or dangerous conditions in new and existing buildings, structures and premises and to provide safety to fire fighters and emergency responders during emergency operations.

(101.3 Intent, 2006 edition, International Fire Code, same in 2009 edition)

International Building Code (IBC)

This comprehensive building code establishes minimum regulations for the building systems by means of prescriptive and performance-related provisions. It is founded on broad-based principles that make possible the use of new materials and new building designs.

(Preface to the "Significant Changes to the International Building Code, 2009 edition")

The purpose of this code is to establish the minimum requirements to safeguard the public health, safety and general welfare through structural strength, means of egress facilities, stability, sanitation, adequate light and ventilation, energy conservation, and safety to life and property from fire and other hazardous attributed to the built environment and to provide safety to fire fighters and emergency responders during emergency operations. (101.3 Intent, 2006 edition International Building Code, same in 2009 edition)

International Wildland-Urban Interface Code (IWUIC)

The objective of this code is to establish minimum regulations consistent with nationally recognized good practice for the safeguarding of life and property. Regulations in this code are intended to mitigate the risk to life and structures from intrusion of fire from wildland fire exposures and fire exposures from adjacent structures and to mitigate structure fire from spreading to wildland fuels.

(101.3 Objective, 2009 edition International Wildland-Urban Interface Code)

Nevada Revised Statues (NRS) 318 - General Improvement Districts

The board of county commissioners of any county within this State is hereby vested with jurisdiction, power and authority to create districts within the county which it serves.

NRS 318.1181 Protection from Fire

In the case of a district created wholly or in part for the purpose of furnishing fire protection, the board may: 1.) Acquire fire protection equipment and acquire, construct or improve fire protection facilities and make improvements necessary and incidental thereto; 2.) Eliminate fire hazards existing within the district in the manner prescribed in NRS 474.580 for districts created pursuant to chapter 474 of NRS; 3.) Clear public highways and private lands of dry grass, stubble, bushes, rubbish and other inflammable material which in its judgment constitute a fire hazard; 4.) Coordinate fire protection activities with the State Forester Firewarden and the Advisory Board on Natural Resources; and 5.) Cooperate with the State Forester Firewarden and the Advisory Board on Natural Resources in formulating a statewide plan for the prevention and control of fires.

Nevada Revised Statues (NRS) 473 – Fire Protection Districts Receiving Federal Aid

The objective of NRS 473 allows the State Forester Firewarden to establish regulations for the organization of the area included within the district to meet the terms and requirements for federal aid. The State Forester Firewarden may prohibit or restrict activities within the boundaries of any fire protection district governed by this chapter when a danger to public safety or natural resources exists because of conditions which create a high risk of fire.

Nevada Revised Statues (NRS) 474 – County Fire Protection Districts

The objective of the NRS 474 allows the County Board of Directors to manage and conduct the business and affairs of the county fire protection district. Adopt and enforce all rules and regulations necessary for the administration and government of the district and for the furnishing of fire protection thereto, which may include regulations relating to fire prevention. The regulations may include provisions that are designed to protect life and property. Organize, regulate, establish and disband fire companies, departments or volunteer fire departments for the district.

NRS 474.167 Cooperation with State Forester Firewarden and other agencies to prevent and suppress fires in wild lands; authorized expenditures.

The board of directors of a county fire protection district shall cooperate with the State Forester Firewarden and other agencies as provided in NRS 472.040 to 472.090, inclusive, to prevent and suppress fires in wild lands, and may contribute suitable amounts of money from the sums raised as provided in NRS 474.200 for that purpose to cooperating agencies, or may receive contributions from other agencies to be spent for that purpose.

Nevada Revised Statues (NRS) 477 – State Fire Marshal

The State Fire Marshal shall enforce all laws and adopt regulations relating to the prevention of fire, the suppression and punishment of arson and fraudulent claims or practices in connection with fire losses. The regulations of the State Fire Marshal apply throughout the State, but except with respect to state-owned or state-occupied buildings, the State Fire Marshal's authority to enforce them or conduct investigations under this chapter does not extend to a school district except as otherwise provided in NRS 393.110, or a county whose population is 100,000 or more or which has been converted into a consolidated municipality, except in those local jurisdictions in those counties where the State Fire Marshal is requested to exercise that authority by the chief officer of the organized fire department of that jurisdiction or except as otherwise provided in a regulation adopted pursuant to paragraph (b) of subsection 2.

The State Fire Marshal may adopt regulations based on nationally recognized standards setting forth the requirements for fire departments to provide training to firefighters using techniques or exercises that involve the use of fire or any device that produces or may be used to produce fire. The State Fire Marshal shall cooperate with the State Forester Firewarden in the preparation of regulations relating to standards for fire retardant roofing materials pursuant to paragraph (e) of subsection 1 of NRS 472.040 and the mitigation of the risk of a fire hazard from vegetation in counties within or partially within the Lake Tahoe Basin and the Lake Mead Basin. The State Fire Marshal furnishes and administers programs for the training of firefighters.

Tahoe Regional Planning Agency (TRPA)

Although not a fire protection entity, they have significant jurisdiction and impact on vegetation management within the Lake Tahoe Basin. Created by Congressional Compact as a Bi-State Agency between California and Nevada, TRPA protects and preserves the environment of Lake Tahoe.

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Attachment A Lake Tahoe Basin Surveys

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Sierra Forest Fire Protection District (NDF)	The portion of Carson City encompassing the western foothills to Lake Tahoe	27,099	2,748		1	Career	2006 IFC Adopted 2007 2006 IBC Adopted 2007	NRS 472.040 (Powers and duties of the state forester firewarden) NRS 472.041 (Enforcement of certain provisions of UFC regarding clearance of vegetation around structures) NRS 472.100 (Fire retardant roofing in areas designated as fire hazardous). NRS 473.100 (Elimination of fire hazards)
Carson City Fire Department	Carson City Consolidated Municipality	93,440	58,000	470	3	Career	2006 IFC Adopted 2007 2006 IBC Adopted 2007	We do not use the ICC WUI. Carson City has its own ordinance related to defensible space. This is in addition to the provisions in the IFC. Carson City's ordinance can be viewed at: http://library6.municode.com:80/default-test/template.htm?view=browse&doc_action=setdoc&doc_key=d5cc75 65e3338e0c4481f9dbe793ff95&infobase=16249
Tahoe Douglas Fire Protection District	Lake Tahoe Basin Portion of Douglas County	11,471	7500	318	4	Career	2006 IFC Adopted 2007 2006 IBC Adopted 2007	No specific ordinance. WUI Code is partially adopted by reference.
North Lake Tahoe Fire Protection District	The portion of Washoe County encompassing Incline Village and Crystal Bay, Nevada	10,240	10-30,000 (Seasonal)	474	3	Career	2006 IFC Adopted 2007 2006 IBC Adopted 2008 2003 WUI Adopted 2004	Yes - 2003 IUWIC adopted requiring Defensible Space for any new construction or additions adding 350 square feet or more to the footprint of a building. Also, all development applications reviewed are recommended for approval with defensible space compliance a requirement.
Fire Department Name	Area of Jurisdiction	Acres	Population	NRS Authority	No. Stations	Career/VFD/Combination	Fire Safety & Fire Prevention Regulations, Laws and Authority within Jurisdiction	Does your jurisdiction have an ordinance(s) relating to Defensible Space and/or Vegetation Management?

Fire Department Name	North Lake Tahoe Fire Protection District	Tahoe Douglas Fire Protection District	Carson City Fire Department	Sierra Forest Fire Protection District (NDF)
Are there any other applicable Codes, Ordinances or Regulations?	Various state laws and regulations, including but not limited to NRS Chapter 202, Crimes Against Public Health and Safety; NRS Chapter 475, Crimes and Responsibilities Concerning Fires; NRS Chapter 477, State Fire Marshal; NRS Chapter 476, Explosives and Inflammable Materials; and NAC Chapter 477 State Fire Marshal	IFC 304.1.2 which provides for vegetation clearance in accordance with IWUI sec. 603. NRS 474.580 and NRS 318.1181	All codes, ordinance, or regulations we enforce are referenced in the IFC, or in CCMC Title 14 available to be viewed at the Carson City Website www.carsoncity.nv.us (look at the bottom of the page and link to "Municipal Codes" - then follow that page to "Title 14" In addition, we are required to follow NRS and NAC for laws and regulations which pertain to us.	Carson City Municipal Code has its own ordinance related to defensible space.
Is your Department/ Agency subject to any Codes/Regulations/Rules adopted or enforced by any other agency?	Yes - NAC Chapter 477, State Fire Marshal, sets the minimum fire and building code applicable in the State of Nevada and provides for the licensing of contractors and certain specialty occupations related to fire protection. The Tahoe Regional Planning Agency (TRPA) also has codes and regulations impacting fire protection services within the Fire District's boundaries.	The Tahoe Regional Planning Agency (TRPA) also has codes and regulations impacting fire protection services within the Fire District's boundaries.	We are required to follow laws and regulations (NRS and NAC) as adopted by the state fire marshal's office or the state forester fire warden.	State Fire Marshal, sets the minimum fire and building code applicable in the State of Nevada. The Tahoe Regional Planning Agency (TRPA) also has codes and regulations impacting fire protection and fuels management within the portion of the fire district within the Lake Tahoe basin.
Do you feel there is adequate Statutory & Regulatory authority for your Department/Agency to provide effective vegetation management and fire protection? If not, what would you like to see developed?	Yes.	No. A consistent process for establishing lines of authority and the enforcement process should be developed that is consistent statewide.	I believe that the IFC and the local ordinances, combined with the laws in the NRS and regulations in the NAC are sufficient to provide adequate protection in this area.	NRS 472.041 allows NDF to enforce Appendix II-A of the 1985 Uniform Fire Code. This should be updated to a newer code.

Fire Department Name	North Lake Tahoe Fire Protection District	Tahoe Douglas Fire Protection District	Carson City Fire Department	Sierra Forest Fire Protection District (NDF)
Is existing funding within your Department/Agency adequate to cover fire safety & prevention activities? Is there a mechanism to increase funding to ensure enforcement of new regulations as adopted?	Existing funding is not adequate. There is no mechanism to increase funding to enforce new regulations that may be adopted. Current efforts underway by others are having the effect of reducing further the traditional funding sources available to the Fire District to carry out its mission in all areas.	No, enforcement would require additional funding. Yes, but this mechanism is already being used to fund fuels reduction, would be unlikely to be able to generate additional funds to support enforcement. The ability to levy fines or recover costs would possibly help fund enforcement.	Existing funding is not sufficient to cover fire safety and prevention activities to the extent I would like to have them covered. We do supplement our general fund revenues with grant funding and look to provide additional protection from wildland fires in that way. We do not have an effective means to increase funding.	No, the fire district budget is based on ad valorem and consolidated taxes. These budgets are currently decreasing, and as a result firefighter positions have been cut back.
Is there any specific recommendation for legislation your Department/Agency would like to see developed statewide or locally?	Not at this time.	See above.	See below	Not at this time
What do you see as the role of the State in fire safety, prevention, fuels management and suppression?	The State needs to continue to set the minimum requirements for adoption of fire safety related codes and standards throughout the State of Nevada. These fire safety related codes and standards need to include the minimum requirements for a fuels management program. State adoption of any codes and standards must continue to allow the local fire agency's governing body the ability to adopt more stringent codes and standards based on varying local needs.	Developing the overall legislation and strategy while allowing implementation to occur at a local level.	I believe that the state should be active participants in developing NRS and NAC's - I think they should look to provide a uniform code or set of codes that can be applied across the entire state for enforcement and/or protection from wildland fires. The legislation established by the state should be a minimum standard that a local government can use, or if they choose to, the local government can pass more strict standards.	Nevada State Fire Marshal's office is very limited, their funding and manpower is stretched already. Nevada Division of Forestry works with Carson City and Clark County Fire jurisdiction for enforcement with interlocal agreement in the 473 Fire Districts.

Sierra Forest Fire Protection District (NDF)	Not at this time.
Carson City Fire Department	Not at this time.
Tahoe Douglas Fire Protection District	Not at this time.
North Lake Tahoe Fire Protection District	Maintain the working relationships between the State Forester and the State Fire Marshal and between both of these agencies and the local fire protection agencies throughout the state.
Fire Department Name	Are there any other comments you'd like to include regarding Fire Safety & Fire Prevention regulations, laws or authorities in Nevada?

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Attachment B Douglas County Survey

Fire Department Name	East Fork Fire Protection District
Area of Jurisdiction	All of Douglas County, outside of the Tahoe Basin
Square Miles	695
Population	45,000
NRS Authority	474
No. Stations	14
Career/VFD/Combination	Combination
Fire Safety & Fire Prevention Regulations, Laws and Authority within Jurisdiction	2006 IFC Adopted 2008 2006 IBC Adopted 2008
Does your jurisdiction have an ordinance(s) relating to Defensible Space and/or Vegetation Management?	No.
Are there any other applicable Codes, Ordinances or Regulations?	Douglas County Code, Title 20
Is your Department/Agency subject to any Codes/ Regulations/Rules adopted or enforced by any other agency?	Under NRS 477 the State Fire Marshal has adopted the 2006 IFC as the minimum standard for all counties, except Clark
Do you feel there is adequate Statutory & Regulatory authority for your Department/Agency to provide effective vegetation management and fire protection? If not, what would you like to see developed?	No, we are in need of an Urban Interface Code.
Is existing funding within your Department/ Agency adequate to cover fire safety & prevention activities? Is there a mechanism to increase fund- ing to ensure enforcement of new regulations as adopted?	No Not always, however grant funding seems abundant
Is there any specific recommendation for legisla- tion your Department/Agency would like to see developed statewide or locally?	Statewide Urban Interface Code.
What do you see as the role of the State in fire safety, prevention, fuels management and suppression?	Coordination, Technical Assistance, Guidance, and some regulatory.
Are there any other comments you'd like to include regarding Fire Safety & Fire Prevention regulations, laws or authorities in Nevada?	Not at this time

Attachment C Washoe County Surveys

Fire Department	Washoe County Fire Suppression Program	Truckee Meadows Fire Protection District	Sierra Fire Protection District (Washoe)	Sparks Fire Department	Reno Fire Department
Area of Jurisdiction	Unincorporated areas of Washoe County, north of Township 22N	Unincorporated areas of Washoe County, south of Township 22N.	Unincorporated areas of Washoe County, west of Highway 395	City of Sparks	City of Reno
Acres	3,450,176	472,403	153,664	22,662	
Population	2,580	78,432	16,645	91,684	
NRS Authority	244 - General County	474	474	265	265
No. Stations	3	15	6	S	12
Career/VFD/ Combination	VFD	Combination	Combination	Career	Career
Fire Safety & Fire Prevention Regulations, Laws and Authority within Jurisdiction	2006 IFC Adopted 2008 2006 IBC Adopted 2008	2003 IFC Adopted 2008 2006 IBC Adopted 2008	2006 IFC Adopted 2008 2006 IBC Adopted 2008	2006 IFC Adopted 2008 2006 IBC Adopted 2008	2003 IFC Adopted
Does your jurisdiction have an ordinance(s) relating to Defensible Space and/or Vegetation Management?	Yes, IFC references the WUI code. TM, Sierra and Washoe Co. are reviewing and amending the 2009 WUI code and the 2006 IFC for possible adoption by county ordinance.	No. For vegetation fire hazard compliance we use Chparter 3 of the IFC and NRS 474.580. We propose to adopt the 2009 WUI Code with amendments as part of our adoption of the 2006 IFC.	Yes, IFC references the WUI code. TM, Sierra and Washoe Co. are reviewing and amending the 2009 WUI code and the 2006 IFC for possible adoption by county ordinance.	Policy Manual on Site Development for Hillsides (References "Living with Fire") and City of Sparks Municipal Code Title 14 Fire Prevention	No. For vegetation fire hazard compli- ance we use Chapter 3 of the IFC.

Fire Department	Washoe County Fire Suppression Program	Truckee Meadows Fire Protection District	Sierra Fire Protection District (Washoe)	Sparks Fire Department	Reno Fire Department
Are there any other applicable Codes, Ordinances or Regulations?	Yes, the IBC was adopted by county ordinance	Various NRS: 475, 467, 477 & NAC 477	Yes, the IBC was adopted by county ordinance	Yes, Planning Commission landscaping standards	Various NRS: 475, 476, 477 & NAC 477
Is your Department/ Agency subject to any Codes/Regula- tions/Rules adopted or enforced by any other agency?	Under NRS 477 the State Fire Marshal has adopted the 2006 IFC as the minimum stan- dard for all counties, except Clark.	Under NRS 477 the State Fire Marshal has adopted the 2006 IFC as the minimum stan- dard for all counties, except Clark.	Under NRS 477 the State Fire Marshal has adopted the 2006 IFC as the minimum stan- dard for all counties, except Clark.	Under NRS 477 the State Fire Marshal has adopted the 2006 IFC as the minimum stan- dard for all counties, except Clark.	Under NRS 477 the State Fire Marshal has adopted the 2006 IFC as the minimum standard for all counties, except Clark.
Do you feel there is adequate Statutory & Regulatory authority for your Department/ Agency to provide effective vegetation management and fire protection? If not, what would you like to see developed?	Yes, however it would be beneficial for the state to adopt the WUI code as a state-wide minimum. Implementation could be phased in by counties.	Yes, however it would be beneficial for the state to adopt the WUI code as a state-wide minimum. Implementation could be phased in by counties.	Yes, however it would be beneficial for the state to adopt the WUI code as a state-wide minimum. Implementation could be phased in by counties.	Yes, current laws are adequate.	NRS 473-type provisions to apply throughout the state
Is existing funding within your Department/Agency adequate to cover fire safety & prevention activities? Is there a mechanism to increase funding to ensure enforcement of new regulations as adopted?	There is no dedicated funding in the Washoe County General fund for a Defensible Space Inspection/Compliance program	No, we do not have adequate funding to cover current prevention program goals. There is no funding for the increase in workload that additional regulations will necessitate.	Sierra Fire has a grant funded defensible space inspection and compliance program	No. Funding is not adequate. The current economic climate has had a significant impact on the public safety budgets of the City of Sparks. Additionally, \$600,000 dollars per year that was dedicated to capital improvement projects has been shifted to the state, having a direct impact on the Fire Department	No, we do not have adequate funding to cover current prevention program goals. There is no funding for the increase in workload that additional regulations will necessitate.

Fire Department	Washoe County Fire Suppression Program	Truckee Meadows Fire Protection District	Sierra Fire Protection District (Washoe)	Sparks Fire Department	Reno Fire Department
Is there any specific recommendation for legislation your Department/Agency would like to see developed statewide or locally?	Yes, would like to see clarifications within 472, along with the funding for NDF to be a full partner.	Yes, would like to see NRS 472 & 473 provi- sions applied statewide	Yes, would like to see clarifications within 472, along with the funding for NDF to be a full partner.	The city would need financial assistance in order to any new state laws. Ability for municipalities to have public safety referendums, without having to hold a county wide vote.	Yes, would like to see NRS 472 & 473 provi- sions applied statewide
What do you see as the role of the State in fire safety, prevention, fuels management and suppression?	The state needs to be a full partner with local government to coordinate, assist and help identify funding; and to maximize efforts on a year round basis.	Set minimum standards, be a partner, communicate, cooperate.	The state needs to be a full partner with local government to coordinate, assist and help identify funding; and to maximize efforts on a year round basis.	Continued Division of Forestry support for FMAG program. State funding for local government response under Nevada Mutual Aid Agreement. State Fire Marshal support for residential sprinkler systems. DEM or NDF to provide central billing for local government.	Set minimum standards, be a partner, communicate, cooperate
Are there any other comments you'd like to include regarding Fire Safety & Fire Prevention regulations, laws or authorities in Nevada?	The laws are not clear enough. Where NDF has the authority, it lacks the funding.	The synergy between departments and agencies is very good and important for consistent codes, enforcement, public education messages, etc.		Continued support of the Sierra Front Coor- dinator and assistance in developing all risk IMT's.	The synergy between departments and agencies is very good and important for consistent codes, enforcement, public education message etc.

Attachment D Lake Mead Basin Surveys

Fire Department	Clark County Fire Department	City of Las Vegas Fire Department	City of North Las Vegas Fire Department	Boulder City Fire Department	City of Henderson Fire Department	Mount Charleston Fire Protection District
Area of Jurisdiction	All of Clark County with the exception of in- corporated Cities, Federal Lands, and Mt. Charleston	City of Las Vegas	City of North Las Vegas	Boulder City	City of Henderson	The portion of Clark County encompassing Kyle and Lee Canyons, and adjacent areas
Square Miles	7,420	133.2	82.4	206.0	79.7	
Population	1,986,146	538,653	220,000	15,000	267,000	
NRS Authority	474	265	265	265	265	473
Number of Stations	41	16	8	1	6	2
Career/VFD/ Combination	Combination	Career	Career	Combination	Career	Career
Fire Safety & Fire Prevention Regu- lations, Laws and Authority within Jurisdiction	2000 Uniform Fire Code	NFPA Fire Codes	In the process of adopting 2009 IFC & IBC effective July 2011	In the process of adopting 2009 IFC & IBC effective July 2011	In the process of adopting 2009 IFC & IBC effective July 2011	2005 Clark County Fire Code (2000 UFC) Adopted 2005 2006 IBC Adopted 2006

	No	Hazard Abatement	Department No	Department	City of Henderson Fire Department No	Fire Protection District NRS 472.040 (Powers and duties of the State Forester Firewarden). NRS 472.041 (Enforcement of certain provisions of UFC regarding clearance of vegetation around structures). NRS
Ž		N _O	°Z	NO	Ñ	472.100 (Fire retardant roofing in areas designated as fire hazardous). NRS 473.100 (Elimination of fire hazards)
Statewide Adoption Codes	sopo _s	Ž	N	No	Š	State Fire Marshal, sets the minimum fire and building code applicable in the State of Nevada.

Fire Department	Clark County Fire Department	City of Las Vegas Fire Department	City of North Las Vegas Fire Department	Boulder City Fire Department	City of Henderson Fire Department	Mount Charleston Fire Protection District
Do you feel there is adequate Statutory & Regulatory authority for your Department/Agency to provide effective vegetation management and fire protection? If not, what would you like to see developed?	N	No	No	No	No, Need Statewide Policy	NRS 472.041 allows NDF to enforce Appendix II-A of the 1985 Uniform Fire Code. This should be updated to a newer code.
Is existing funding within your Department/ Agency adequate to cover fire safety & prevention activities? Is there a mechanism to increase funding to ensure enforcement of new regulations as adopted?	No	N	No	No	No	Fire safety and prevention activities are funded by the general fund of Clark County and special revenue fund based on permit fees. Public education has a very limited budget.

Fire Department	Clark County Fire Department	City of Las Vegas Fire Department	City of North Las Vegas Fire Department	Boulder City Fire Department	City of Henderson Fire Department	Mount Charleston Fire Protection District
Is there any specific recommendation for legislation your Department/Agency would like to see developed statewide or locally?	Need a State Wide Adoption Code	Who will enforce this?	Make it State wide	929	Standard Codes	Not at this time.
What do you see as the role of the State in fire safety, prevention, fuels management and suppression?	We feel that if there was a state- wide Code that the Municipalities would follow	Assistance and Training	Help enforce the WUI Fire Laws		Assistance and Leadership	Nevada State Fire Marshal's office is very limited, their funding and man- power is stretched already. Nevada Division of Forestry works with Car- son City and Clark County Fire jurisdic- tion for enforcement with interlocal agree- ment in the 473 Fire Districts.
Are there any other comments you'd like to include regarding Fire Safety & Fire Prevention regulations, laws or authorities in Nevada?	Stronger Policies on Defensible Space within the WUI	Need NRS to Enforce	Enforcement Power	No	Teeth to Enforce Defensible Space.	Not at this time

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Attachment E Clark County Surveys

Fire Department Name	City of Mesquite Fire Department
Area of Jurisdiction	Protection within the City of Mesquite
Square Miles	32.08
Population	19,754
NRS Authority	
No. Stations	3
Career/VFD/Combination	Combination
Fire Safety & Fire Prevention Regulations, Laws and Authority within Jurisdiction	IFC Adopted
Does your jurisdiction have an ordinance(s) relating to Defensible Space and/or Vegetation Management?	No
Are there any other applicable Codes, Ordinances or Regulations?	No
Is your Department/Agency subject to any Codes/ Regulations/Rules adopted or enforced by any other agency?	No
Do you feel there is adequate Statutory & Regulatory authority for your Department/Agency to provide effective vegetation management and fire protection? If not, what would you like to see developed?	No, We need a policy Statewide
Is existing funding within your Department/ Agency adequate to cover fire safety & prevention activities? Is there a mechanism to increase fund- ing to ensure enforcement of new regulations as adopted?	No
Is there any specific recommendation for legislation your Department/Agency would like to see developed statewide or locally?	Direction and Codes to Enforce
What do you see as the role of the State in fire safety, prevention, fuels management and suppression?	Assistance
Are there any other comments you'd like to include regarding Fire Safety & Fire Prevention regulations, laws or authorities in Nevada?	Need Authority to Enforce

Attachment F

Other Entities of Special Interest Surveys

Fire Department	Humboldt- Toiyabe Spring Mountains NRA (Las Vegas)	Lake Tahoe Basin Manage- ment Unit	Southern Nevada District BLM	USF&WS Desert Complex	National Park Service Lake Mead NRA	Nellis and Creech Air Force Bases	Tahoe Regional Planning Agency
Area of Jurisdiction	National Forest System Lands	National Forest System Lands	BLM Public Lands	USF&WS Lands	NPS Lands	AFB Deed Lands	Lake Tahoe Basin
Acres	319,000		2,900,000	493,000	587,000	410,000	49,580
Population	0	0	0	0	0	0	17,500
NRS Authority	USDA Forest Service	USDA Forest Service	USDI BLM	USDI USF&WS	USDI NPS	USAF land Deed	277.220
No. Stations	4		4	1	5	4	0
Career/VFD/ Combination	Career	Career	Career	Career	Combination	Career	N/A
Fire Safety & Fire Prevention Regulations, Laws and Authority within Jurisdiction	Code of Federal Regulations (CFR) (Forest) Fire Management Plans	Code of Federal Regulations (CFR) (Forest) Fire Management Plans	Code of Federal Regulations (CFR) (Public Lands) Fire Management Plan	Code of Federal Regulations (CFR) (Refuges) Fire Management Plan	Code of Federal Regulations (CFR) (Refuges) Fire Management Plan		N/A

	Humboldt-		17.00		No.4:		() () () () () () () () () ()
Fire Department	Toiyabe Spring Mountains NRA (Las Vegas)	Lake Tahoe Basin Manage- ment Unit	Southern Nevada District BLM	USF&WS Desert Complex	National Fark Service Lake Mead NRA	Nellis and Creech Air Force Bases	Tahoe Regional Planning Agency
Does your jurisdiction have an ordinance(s) relating to Defensible Space and/ or Vegetation Management?	Yes, through local Fuels & Fire Management Plans	Yes, through local Fuels & Fire Management Plans	Through the BLM FMP	Yes, Refuge FMP	Yes, both Wildland and Structure.		Chapter 75 provides for defensible space by deferring to local, state, and federal regula- tion.
Are there any other applicable Codes, Ordinances or Regulations?	Š	Š	Ž	Š	Š		Chapter 71 provides regulations for tree removal, streamside, vegetation and old growth management. Permits are required for any fuels treatments.
Is your Department/Agency subject to any Codes/Regulations/Rules adopted or enforced by any other agency?	No, Only on Forest Service Administered Lands	No, Only on Forest Service Administered Lands	No, Only on BLM Adminis- tered Lands	No, Only on Fish and Wild- life Adminis- tered Lands	No, Only on Park Service Lands		There are local, state and federal regulations and the most stringent one prevails if there is an overlap in authority.

Fire	Humboldt- Toiyabe Spring Mountains NRA (Las Vegas)	Lake Tahoe Basin Manage- ment Unit	Southern Nevada District BLM	USF&WS Desert Complex	National Park Service Lake Mead NRA	Nellis and Creech Air Force Bases	Tahoe Regional Planning Agency
Is existing funding within your Department/Agency adequate to cover fire safety & prevention activities? Is there a mechanism to increase funding to ensure enforcement of new regulations as adopted?	Varies Year to Year. Hopefully FPA will stabilize the Budget.	Varies Year to Year. Hopefully FPA will stabi- lize the Budget.					TRPA has funds for two foresters, who review plans, issue permits and monitor fuels management projects on federal, state and private lands. This can create delays in project approval.
Is there any specific recommendation for legislation your Department/ Agency would like to see developed statewide or locally?	See Below	See Below	See Below	See Below	See Below		No
What do you see as the role of the State in fire safety, prevention, fuels management and suppression?	Preven- tion, Fuels on Private lands with in Nevada	Prevention, Fuels on Private lands with in Nevada	Enforcement of Fire Laws and Definable Space on Private lands	More teeth on Enforcement	Cooperation on Enforcement on Private Lands		The State should provide a greater role in provid-ing regulations, not just public education

Tahoe Regional Planning Agency	Suggest that the 'Living with Fire' recommendation be codified in to defensible space regulations.
Nellis and Creech Air Force Bases	
National Park Service Lake Mead NRA	No
USF&WS Desert Complex	No
Southern Nevada District BLM	ON
Lake Tahoe Basin Manage- ment Unit	oN
Humboldt- Toiyabe Spring Mountains NRA (Las Vegas)	oN
Fire	Are there any other comments you'd like to include regarding Fire Safety & Fire Prevention regulations, laws or authorities in Nevada?