

Foothills Fire Protection District

Long Range Plan

October, 2004



Foothills Fire Protection District

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INTRODUCTION AND PURPOSE OF THE LONG RANGE PLAN

This Long Range Plan describes the Foothills Fire Protection District and its fire fighting, rescue and emergency medical services requirements. It describes how the Foothills Fire Protection District, and its operational arm, Foothills Fire & Rescue, plan to meeting those requirements through the year 2008.

In this document, the District will inventory currently available personnel, equipment and other assets, and present our plans to maintain, improve and utilize those resources to meet the changing needs of our District in a cost effective manner.

The purpose of this Plan is to communicate with and respond to the concerns of the community which the District serves.

ABOUT THE FOOTHILLS AREA

Foothills Fire Protection District (FFPD) includes a portion of Bear Creek Canyon on the South and extends to Clear Creek on its northern border. Its rolling hills and rugged mountains range in elevation from 6,400 feet on the east end and along Clear Creek to over 8,000 feet on the mountains that dot the District's west end. The District extends from Highway 26 at the Morrison Junction of I-70 (Milepost 259) west past El Rancho to approximately Milepost 251 on I-70. These eight miles of I-70 are some of the most dangerous in the State, particularly during adverse weather conditions. The District is also responsible for Colorado Highway 74, and Bear Creek Canyon, from the town of Morrison west nearly to the town of Kittridge.

The District includes areas formerly in the Idledale, Lookout Mountain and Mount Vernon Fire Protection Districts. The Foothills District encompasses a total area of 25.2 square miles. A sizable percentage of this area is non-tax generating public space. (See Appendix A & B)

The District protects 8 miles of Interstate 70 from Milepost 259 to Milepost 251. The District also protects the east face of Lookout Mountain from the Lariat Trail to the "M." This includes access to the Beaver Brook Trail and the steep forested lands on the South side of Clear Creek. Major tourist attractions within the District include the Mother Cabrini Shrine, Red Rocks Park, Buffalo Bill's Grave, the buffalo pens, and elk herd enclosures along Interstate 70 near exit 254. Various residential developments, some dating back to the cabin era of development, and other more modern city-like subdivisions, require residential fire protection and emergency medical coverage. The District has very little commercial real estate as it is primarily residential in character. However, most Denver television and radio stations have their antennae and transmitting

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equipment either on Lookout Mountain or Mount Morrison, both of which are within the District.

Wildfire: The District is divided by numerous canyons, many of which are heavily forested with steep walls creating major fire hazards during the dry season. Mountain winds occasionally fan Wildland fires which could endanger numerous residences. The area along the entire northern border drops into the Clear Creek area and wildfires within it can only be fought on foot and by air. Much of the rugged area is legally outside the District's boundaries, but is not covered by other agencies, and presents a major threat that must be included in Foothills Fire Protection District planning. Any sizable wildland fire threatening the District will be difficult to control, particularly if fire danger and winds are high. Significant fires could result in property loss before any kind of an effective stand could be made.

Traffic: An Interstate Highway, a twisting and turning deep canyon highway and a mix of bicycles, cars, hikers, truckers, skiers and gamblers passing through the area causes numerous vehicle and pedestrian accidents. Winter weather can cause treacherous conditions. I-70's six percent grade followed by dead man's curve at the bottom results in numerous incidents, some which are quite serious. Recent improvements in Interstate 70 has contributed to increased trucking. In addition the advent of limited stakes gaming in the towns of Black Hawk and Central City has increased traffic related to gaming. Trucks move at speeds of 10 to 35 miles per hour on the steep grades. They mix with gaming and ski traffic moving at rates of 55 to 90 miles per hour resulting in an increase in incidents on I-70 each year. Plans for construction of a new road linking I-70 traffic directly to Black Hawk will further increase gaming related traffic and gaming related incidents. A hazardous material spill along any of our major highways (74, 26, 93, I-70) could require evacuation of 1000's of residents.

Weather: Significant snowfalls are commonplace in our District. Likewise, intense lightning storms and bitter cold can cause numerous problems with respect to response capabilities. Fierce, dry windstorms due to pressure gradients pose a risk to the District. Although most frequent in late fall and winter, the area can be windy at any time of the year. During a severe wind storm (20-30 mph winds with 60-80 mph gusts) even the smallest fire or hazmat spill could be extended by miles.

Water Supply: The District is served by five public water districts. Structures not served by public water generally have their own well or cistern. Those districts are:

1. The Lookout Mountain area is served by the Lookout Mountain Water District which operates the Beaverbrook water line.
2. The Mount Vernon area is served by a water system operated by the Mount Vernon Metropolitan District.
3. Riva Chase is served by the Forest Hills Water and Sanitation District.
4. Water in Idledale is provided by the Idledale Water District.
5. The Genesee Crossing development and Ralston school are served by a 6 inch water main from the Genesee Water and Sanitation District.

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All other water in the District comes from privately owned wells or cisterns.

Most areas of the District served by public water systems have standard type hydrants, but a few hydrants do not have steamer connections. The laterals in District vary from 1 inch to 8 inches in diameter. Lines under 4 inches in diameter are inadequate for fire flows.

Several cisterns have been installed in the District with varying results. Two 10,000 gallon cisterns are located in Sunset Hills and one 10,000 gallon cistern is located in Summit Ranch. A 30,000 gallon cistern is located on the Rainbow Hills Road and a dry hydrant has been installed in the Cold Springs Ranch area at the pond.

The fire district requires cisterns at private residences without adequate water supplies.

For specific information about water sources within the District see Appendix C.

ABOUT THE FOOTHILLS FIRE PROTECTION DISTRICT

History: The Foothills Fire Protection District was created January 1, 1997. Three independent Fire Protection Districts joined together to form a new District.

The **Mount Vernon Fire Protection District** was formed in 1950. It held an ISO 5 Rating. The Mount Vernon community constructed its own public water system to provide domestic water and water for firefighting. Twenty-Six fire hydrants were strategically placed within the bounds of the Mount Vernon Community.

The **Idledale Fire District** was formed in 1948. The District originally consisted of an area from the mouth of Bear Creek Canyon near the town of Morrison West nearly to Kittredge on both sides of the Bear Creek drainage extending Northward to Highway 40 and West to the El Rancho area. At the time the Genesee development was proposed, an exclusion of the Genesee area took place. This created the new Genesee Fire District and left the remaining Idledale District divided. From the firehouse in Idledale the District curved to the North and the West all the way to El Rancho. To service the North end of the District, a satellite station was placed on the North end of the Grapevine Road. This provided fire protection for Riva Chase, Cold Springs Ranch and to the Genesee Park area.

The **Lookout Mountain Fire District** was formed in 1962. The land for the Lookout Mountain Station was obtained and a station was built in 1963 with volunteer labor. A second Station was built in 1973 near the Rainbow Hills area on property obtained from the State Highway Department. The property will revert back to the State if it was no longer used for fire protection purposes. In 1984 the Lookout Mountain District entered into a 40 year lease with the Alpine Rescue Team. Alpine built a new station on this property to house trucks and equipment as well as an office and meeting facilities. In 1995 the far Western portion of the District West of Rainbow Hills was excluded and placed in the Evergreen District at the request of the residents of that area.

Organization: The Foothills Fire Protection District is governed by a board of five members. They operate under Colorado Revised Statutes Title 32. The Board of

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Directors have adopted the Rules and Regulations of the Foothills Fire Protection District and the International Fire Code 2000. The Board also has established and reviews and accepts changes to the Operational guidelines for it's Operational Foothills Fire & Rescue. Each member is elected for a four year term and vacancies are filled by the Board until the next scheduled election that occurs every two years. The Board selects a president, vice president, secretary and treasurer from the members. The Department elects officers from its members annually according to the Rules and Regulations and the Operational Guidelines.

The district has paid employees for the management and implementation of it's authority.

Emergency Medical Services: Foothills Fire & Rescue delivers its emergency medical services through a contract with Highland Rescue Team Ambulance Service for the entire District. All medical actions conducted by District personnel are done under the auspices of a physician advisor.

The Wildfire Committee: This Committee operates under the District Board of Directors. It supports the Board and Department as a citizen group to develop and maintain a community information system concerning rural wildfire hazards, early warning system, evacuation plan, long range water planning, road improvement and all other aspects of fire prevention and community safety. This group consists of several standing committees with chairmen elected annually by members.

Response Time: Good weather response time by the district personnel to an emergency ranges from 2 to 15 minutes. Generally, members are required to respond to a Station to pick up equipment. In some cases, an officer may respond directly to scene in his or her personal vehicle. This provides minimum response time to size up the incident, as well as minimum response time for necessary equipment. Response times are slowed during inclement weather. Many areas of the District are accessible only by using narrow, winding, steep private gravel and dirt roads and paths. Other areas have no roads and are extremely rugged. Because of these conditions, the 4 wheel drive capabilities of the smaller Foothills Fire & Rescue units are frequently needed for back country access.

Facilities: Foothills Fire & Rescue operates five fire stations.

1. The **Lookout Station** is located at 67 S. Lookout Mountain Road. The structure has four truck bays, an office, a kitchen , a dayroom, a rest room and a shower.
2. The **Idledale Station** is located in Idledale South of Highway 74. It has four truck bays, a meeting area, kitchen, a rest room..
3. The **Grapevine Station** is located at 914 South Grapevine Road (North side of District near I-70 exit 256). The Station is located on the West side of Grapevine Road and has two large truck bays. There is no office or meeting space at the Grapevine station.

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4. **Mount Vernon Station** consists of two bays and storage within Mount Vernon's maintenance building located within the Mount Vernon Country Club. This space is loaned to the district by the Mount Vernon Metropolitan District.
5. The **Rainbow Hills Station** is located on the South side of Interstate 70 on the West side of Rainbow Hills Road (near El Rancho). This structure has 3 truck bays, an office and storage room, a hose tower, and a rest room.
6. The Alpine Rescue Building is located on Foothills property and is on a 40 year lease to Alpine Rescue.
7. The Foothills Fire Protection District also owns undeveloped property on Lininger Mountain and in Idledale.

SURROUNDING DISTRICTS AND MUTUAL AID RESOURCES

Foothills Fire Protection District is served by emergency response agencies covered by Jeffco Annual Operating Plan For Wildfire and individually signed mutual aid agreements with surrounding agencies that include the following:

- Highland Rescue Team ambulance service
- Genesee Fire Protection District
- Alpine Rescue Team

Genesee, Highland Rescue and Foothills train together frequently. Training with other surrounding agencies is much less frequent.

In addition, the following agencies provide support to the District:

- The Jefferson County Type III Incident Management Team (IMT)
- Jefferson/Gilpin County Combined Arson Response Team (CART)
- Jefferson County Fire Council
- Jefferson/Adams County HazMat Authority
- Colorado State Patrol HazMat Team
- North Jeffco Wildland Team
- 285 Wildland Team
- I-70 Corridor Wildland Engine Task Force
- Lutheran Medical Center (medical advisor)
- Flight for Life (medical helicopter)
- Air Life (medical helicopter)
- Jefferson County Sheriff's Department (radio dispatch)
- Jefferson County Sheriff's Department mobile command post

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- Denver Mountain Parks
- Jefferson County Open Space
- State Patrol
- Colorado State Forest Service - Golden District
- Aerial Water Tanker Support based at Jeffco Airport
- Colorado State Department of Transportation

OUR EXPECTATIONS REGARDING THE NEXT TEN YEARS

Development: The Foothills District consist of a blend of preserved open space, developed areas, areas that will be developed within the next ten years, and areas that cannot be developed. Development has been rapid over the past ten years, and we expect that this rapid pace will continue for the next ten years, or until the remaining space capable of being developed is entirely consumed. We expect continued steady growth in highly valued residential structures.

Economy: The economy in the State of Colorado, and especially in Jefferson County, has, in recent years, taken a downturn. While this trend has slowed the trend in increasing property values, we do not foresee a radical decline in those values but rather a plateau. The rate of building and road construction may vary, but not enough to impact Fire District operations.

Population: The population of the District will continue to increase. The District projects a growth rate of 2 to 5% over the next ten years leading to an anticipated growth in our District from an estimated (2,244 households times the county average household size of 2.51) 5,600 to an estimated 7,200 people by December of 2007.

Traffic: The growth in traffic on I-70 should continue due to predicted growth. I-70 has been improved over the past few years and a corresponding increase in heavy trucking has been noted by long term residents of the area. Increased numbers of accidents will result in increased calls and, hence, increased cost (and corresponding cost and revenues) for Highland and Foothills.

Highway 74 through Morrison, Idledale and Evergreen, is expected to remain the same two-lane highway as it is today, however increased traffic volume can be expected due to continued growth in Evergreen.

Recreation and Tourism: Recreational activities in areas served by the District should continue to increase. Recreational use of Jefferson County Open Space, Denver Water Property, and Denver Mountain Parks should continue to increase. The District expects hang gliding use on Lookout Mountain to continue. Bicycling should increase on roads throughout the District.

Red Rocks Park, Buffalo Bills Grave, the Buffalo Herd Overlook, Mother Cabrini Shrine and the Lariat Loop all continue to attract both local residents and out of town

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visitors to the area. These resources draw individuals who may not be prepared for the effects of exertion at altitude and the associated medical results.

Wildfire Potential: The District, due to its topography and settlement patterns, possesses a significant wildland interface area. Some areas will improve their wildland hazard status through development and mitigation forestry (Mount Vernon, Denver Owned Properties, Jefferson County Open Space). Other areas will continue to deteriorate due to significant fuel buildup without mitigation efforts. This will present significant fire suppression challenges.

Violent Crime/Terrorism: As Jefferson County continues to grow, urban crime could increase in the Foothills District resulting in more crime related medical calls such as assaults, domestic violence, firearms wounds, traffic accidents and arson. Traffic on I-70 includes radioactive waste, military cargo, illegal drugs, illegal aliens, violent criminals, stolen vehicles and occasionally crimes being committed including assault and murder. This traffic is expected to increase in proportion to traffic volume. Also, there are areas in the District which could pose as a potential target for Weapons of Mass Destruction / Weapons of Mass Effect.

Public Expectations: As the District's composition continues to change, we expect there to be a corresponding change in the public expectations of the operational arm of the District. These expectations could include shorter response times, more public services, and possibly a progression towards a paid staff.

Social Trends: Changing social trends may impact the future availability of volunteers. There is an increasing trend toward dual income families. Employees are driving further to their place of business, and are working longer hours while there, reducing their availability as volunteers. An increase in home businesses and telecommuting may help to offset these trends.

DISTRICT ABSTRACT

The large number of alarms (2000 = 647 calls, 2001 = 558 calls, 2002 = 623 calls) means that Foothills Fire & Rescue is a very experienced volunteer department. Increased cooperation with Genesee Fire Rescue and Highland Rescue has improved emergency services to the area. The consolidation of the Foothills District has also relieved some of the pressure on individual firefighters because more firefighters are now available to respond to the heavy call load. There remains a problem with the number of responders available in the District during daylight hours on working days. Also, the water needs and inadequate roads in remote areas of the District are a danger to homeowners and firefighters. The need to constantly recruit and train new members is a continuing challenge to the District. The newer high-value residential developments seem to yield few people willing to serve with the District.

MISSION STATEMENT

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The mission of the Foothills Fire Protection District is to manage risks to life safety, health and property loss that arise from fire, transportation and other emergencies in the District through a balanced program of mitigation measures and response capabilities. We will encourage the District's residents to behave safely. We will respond aggressively to emergencies, and provide first and foremost for the safety of our volunteer members and paid staff.

The District will cooperate with other Jefferson County fire protection and law enforcement agencies in their own similar management efforts, recognizing that extreme situations will arise from time to time where the assistance of other jurisdictions will be indispensable.

We will complement Highland Rescue Team Ambulance Service's emergency medical response services to District residents with a capable and reliable staff of qualified EMTs and first responders.

DISTRICT GOALS

- 1) Prevention
 - Encourage the use and maintenance of smoke detectors and CO monitors.
 - Promote the maintenance of defensible space around each structure
 - Work towards strategic fuel reduction
 - Educate the public on safety and fire prevention issues.
 - Support efforts to prevent motor vehicle crashes and the resultant injuries.
- 2) Preparation
 - Comply with established fire fighter training and certification standards
 - Comply with established fire fighter physical fitness standards
 - Maximize readiness of appropriate apparatus, equipment and water supplies through maintenance and inspection
 - Establish mutual aid agreements which further the protection of District resources
 - Provide frequent opportunities for training in all likely areas of operation
 - Strive to ensure all fire fighters are certified in structural firefighting, wildland, HazMat awareness and emergency medical first response.
- 3) Response
 - Operate safely with zero deaths or disabling injuries
 - Respond to alarms with appropriate fire fighter, EMS and equipment resources
 - Establish and maintain preplans for all likely incidents

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- Maintain comprehensive operational guidelines
 - Enforce incident command discipline
 - Document incidents and training activities
- 4) Recovery
- Apply lessons learned from incidents to planning for future incidents
 - Provide personnel support through the provision of onscene rehabilitation, gear replacement, Critical Incident Stress Management (CISM)
- 5) Finance and Administration
- Take full advantage of non-tax revenue opportunities
 - Take advantage of neighboring districts' special resources to reduce duplication of effort and cost
 - Maintain an information tracking system for planning purposes

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DISTRICT OBJECTIVES

The following objectives serve as measurable levels of service. The below objectives were developed with guidance from documents provided by the Insurance Services Organization (ISO) and the National Fire Protection Association (NFPA). It is the intent of this plan to apply objectives to operations and then use the objectives to monitor and improve services.

Technology:

The District must evaluate new technologies and produce plans to incorporate them into daily operations. This evaluation process should include streamlining the incident scene and management issues. Statistical analysis should be brought into determining locations, resource allocation, risk assessment, and other information to manage the District.

Communications:

Maintenance of the District's ability to respond within necessary time objectives is critical.

- I. Firefighters shall have contact with one another and dispatch 99% of the time when on county recognized roads.
- II. Firefighters shall have contact with one another and dispatch 95% of the time when off county recognized roads.
- III. Any new radio systems, will be designed to maximize interface capability with surrounding fire districts, law enforcement partners, and other agencies.
- IV. Emergency dispatching shall meet established standards for: minimum staffing of the dispatch center, time to answer of emergency calls, time from receipt of call to dispatch of emergency resources.

Global Issues:

The District is a part of a larger fire service community; including surrounding districts, surrounding counties and other departments along the Front Range. The cost of fire protection will continue to climb, possibly beyond the ability of the District to maintain services. The District must think beyond it's boundaries in order to meet the diversity of current and future emergencies. This responsibility includes maximizing financial responsibility and reducing duplication between the District, it's neighbors, and agencies that are reliant on the District's services.

- I. The District Board of Directors should develop agreements with other surrounding boards on sharing services and resources.

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- II. The District should continue to support Jefferson County Fire Council, Jefferson County Wildland Fire Committee, Jefferson County Wildland Task Force and other appropriate committees.

Structural Firefighting:

Structural firefighting is hazardous to both civilians and members of the department. Successful structural operations are based on a rapid response to the scene and competency after arrival. The following objectives can be applied to all types of structures found in the District.

- I. FFR will establish Incident command on all incidents.
- II. FFR will strive to maintain apparatus in-service time within 8 minutes of alarm 90% of the time on all incidents,
- III. FFR will strive to have a maximum response time of 7.5 minutes on 90% of responses. This is the time from apparatus in-service time to time on scene.
- IV. FFR will strive to access any address in all weather conditions.
- V. FFR will, upon assembling the necessary resources, initiate initial attack within 2 minutes 90% of the time. Initial attack operations shall be organized to ensure that at least four members are assembled before initiating interior fire suppression operations at a working structure fire: Two members for interior operations and two on standby for assistance or rescue of the team operating on the interior.
- VI. FFR will strive to be able to maintain 250 gallons per minute fire flow within five minutes after the first apparatus arrives on scene and for two hours there-after.
- VII. FFR will be able to maintain 500 gallons per minute fire flow within 1000 feet of a hydrant capable of supporting that flow within five minutes of the first apparatus arrival for two hours and then increase the flow to 1000 gallons per minute fire flow within five minutes of the second apparatus arrival,
- VIII. FFR shall have the capability for sustained operations, including fire suppression; engagement in search and rescue, forcible entry, ventilation, and preservation of property; accountability for personnel; a dedicated rapid intervention team (RIT); and provision of support activities for those situations that are beyond the capability of the initial attack.

Wildland Firefighting:

Wildfires are a significant danger in our District. Our District's biggest threat is a conflagration resulting from a wildfire. Because of this threat, our first wildland firefighting priority will be to safely locate and extinguish small wildfires before they can become significant fires. When a significant fire occurs, our first priority will be the

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evacuation of residents in cooperation with the Jefferson County Sheriff's Department. Establishing a reasonable line of defense is the next priority, along with massive mutual aid and protection of our escape routes. Living with this threat means our members must be continually trained in wildland firefighting. We must continually train with our neighboring districts and wildland firefighting agencies, our equipment must match our wildland firefighting and urban interface requirements.

The most effective method of suppression of wildland fires is to stop the fire prior to or soon after ignition. The most cost-effective method to accomplish this goal is to mitigate the fuels. It is the intent of this plan to support all operations to reduce the fuel around structures and strategic fuel reduction in developments. It is understood the District will have a significant wildland fire on the scale of the Buffalo Creek or Hi Meadow fires within the time established by this plan. The District has two types of wildland exposures, fires within the urban/interface and fires on public lands that can spread to structures, each of these types may require different tactics. The following objectives will assist the District with wildland fire suppression:

- Non-Urban/Interface Wildland Fires
 1. FFR will complete a size-up and have the wildfire scouted by basic wildland qualified personnel within 30 minutes of the arrival of the first unit on scene .
 2. FFR will have an initial attack hand crew on the fire line within one hour of the arrival of the first unit on scene.
 3. FFR will be able to supply 30 gallons per minute from at least two 1 ½" lines within 2000 feet of access of apparatus.
 4. FFR will have qualified personnel predict fire behavior using weather information, fuel loading, and fire danger ratings and communicate the prediction to operations/planning within 30 minutes of the arrival of the first unit on scene.
 5. When deemed necessary by qualified personnel, FFR will be able to activate air support within 30 of the arrival of the first unit on scene.
 6. FFR shall have the capability for sustained operations when the fire moves into extended attack operations. FFR will be able to maintain Incident Management until relieved by the Jefferson County IMT Type III.

- Urban/Interface Wildland Fire

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1. FFR will complete a size-up and have the wildfire scouted by basic wildland qualified personnel within ten minutes of the arrival of the first unit on scene.
2. FFR will strive to have National Wildland Coordinating Group (NWCG) red card certified personnel, sufficient for initial attack, at staging within 20 minutes of the arrival of the first unit on scene.
3. FFR will be able to prepare a single complex of structures (up to four structures) for structural protection within 20 minutes of assembly on scene. This includes having two 1 ½” lines surrounding the complex, placement of a wet line, strung out for a distance to safely protect the structure without direct intervention by the engine crews, and preparing the structure for the fire front.
4. FFR will use direct fire attack whenever possible to stop the fire prior to the need to perform indirect structural protection.
5. FFR will have qualified personnel predict fire behavior using weather information, fuel loading, and fire danger ratings and communicate the prediction to operations/planning within 20 minutes of the arrival of the first unit on scene.
6. FFR will be able to activate air support within 10 minutes of the arrival of the first unit on scene.
7. FFR shall have the capability for sustained operations when the fire moves into extended attack operations. FFR will be able to maintain an Incident Management Team Type IV organization until relieved by the Jefferson County IMT Type III.

Rescue Operations:

FFR rescue exposures are extremely wide-ranging due to the terrain within the district. Rescue operations include vehicle extrication, technical and non-technical rope rescue, medical carry-out assistance, swift water rescue, ice rescue and many other anticipated and unanticipated situations. The District maintains a working relationship with the Alpine Rescue Team to provide extended technical rope rescue and search and rescue capability. FFR has had multiple incidents within Jefferson County Open Space and the Denver Mountain Parks lands; these include search and rescue; injured hikers; falls and technical rope rescue.

The intent of this plan is to maintain a close relationship with all outside organizations to assist FFR to meet its mission.

- Rescue Response Time

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1. FFR will maintain apparatus in-service time within 8 minutes of alarm 90% of the time on all incidents.
 2. FFR will have maximum response time of 5 minutes on 90% of responses. This is the time from apparatus in-service time to time on scene.
- Water Rescue
 1. FFR will accomplish ice (with victim exposed within hole) rescue within 10 minutes of the arrival of rescue vehicle.
 2. FFR will complete water rescue within 30 minutes after the first apparatus arrives on scene.
 3. FFR's called dive team will complete underwater recovery within the first operational period.
 4. FFR will complete swift water rescue within 30 minutes after the first apparatus arrives on scene.
 - Rope Rescue
 1. FFR will set up a low angle rescue with safety line within 10 minutes of arrival of a rescue equipped vehicle.
 2. FFR's Rope Rescue Team will accomplish high angle rescue within 60 minutes of arrival of a rescue equipped vehicle. FFR will place EMS personnel with the victim within ten minutes of arrival.
 - Auto Extrication
 1. FFR will be able to complete stabilization, scene protection, door(s) removal, roof removal, and dash role-up within 15 minutes of arrival of a rescue equipped vehicle. Other operations may be necessary.

Hazardous Materials:

FFR is able to recognize and identify potentially hazardous materials and situations and to keep firefighters and the general public out of danger. The Department will be responsible for handling minor situations and have all firefighters trained to an awareness level. The District will utilize the Jefferson/Adams County, Clear Creek County or State Patrol Hazardous Material Teams for significant situations.

Floods:

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FFR has an established plan for monitoring and responding to imminent flood conditions within the flood plains of the district. This plan is aligned with the Jefferson County Emergency Operations Plan. The plan includes monitoring water levels and rainfall during high-risk time frames and, under imminent flood conditions, dispatching apparatus to safe ground, alerting flood plain occupants, and implementing post-flood recovery operations. Post-flood recovery operations may require all District resources. The county emergency operations resources will assume command and gather assistance of outside agencies.

Trench Rescue:

FFR does not maintain significant trench rescue capability to withstand a sustained rescue operation. Cooperative efforts should be developed with local contractors and neighboring districts that have the resources and training to handle a trench rescue. The District should explore options to enable FFR to initiate a rescue until other resources arrive. This effort should include training and automatic aid agreements.

- I. FFR will complete support functions prior to automatic-aid departments. These include:
 1. Size-up
 2. Scene control
 3. Site preparations
 4. Initial rescue operations

Emergency Medical Services:

The primary goal of the Emergency Medical Services is to respond to medical and traumatic emergencies, provide proper interventions and transport when necessary. In the District, this involves the initial response of FFR's personnel to provide first aid and initial patient stabilization and the response of the contracted EMS crew. Currently, the District's EMS and transport services are provided by Highland Rescue Team Ambulance Service so that three levels of EMS intervention are provided:

1. First Responder
2. Basic Life Support (BLS) (Emergency Medical Technician)
3. Advanced Life Support (ALS) (Paramedic)

The first responder is capable at initiating basic care, i.e. CPR, bandaging and splinting, etc. The BLS responder is capable of all the first responder care, oxygen, Automatic Defibrillator (AED) and additional care. ALS is capable of using heart monitors and drug therapy.

The EMS systems must maintain the following objectives:

- I. FFR will provide a first responder on scene with the first arriving apparatus on 90% of the incidents.

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- II. The District will encourage a public access AED program for schools and other large commercial complexes.
- III. The District's contracted EMS crew will provide an ALS response within eight minutes on 90% of the incidents.
- IV. FFR will provide a quality management program to ensure appropriate response times and training for medical personnel.

Fire Prevention and Public Education:

The District's primary objective is to respond to emergency situations, but it also strives to prevent emergency situations such as fires and accidents. Prevention of an event is preferable and more cost effective. The District recognizes there will always be emergencies, but it will always work toward preventing them or reducing their severity. The District will work toward the following objectives:

- Fire Prevention
 1. The District will ensure commercial and residential developments meet the District's Adopted Fire Code.
 2. The District will ensure new residential development meets the District's requirements for provision of fire water and emergency vehicle access.
 3. The District will assist in the enforcement of fire ban laws.
 4. The District will offset the cost of plan reviews by recouping the cost of these reviews through user fees.
 5. The District will inspect each commercial occupancy once per year.
 6. The District will inspect all special permit sites once per year.
- Injury Prevention
 1. The District will ensure all paid staff are trained Child Passenger Safety Technicians (Car Seat Technicians) within one year of hire and will encourage volunteers to obtain this level of training as well. Residents will be encouraged to utilize these technicians to be trained in Child Passenger Safety Systems and their appropriate installation.
 2. The District will work with local partners to sponsor at least one child safety seat checkpoint a year.

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3. The District will support efforts to bring vehicle, home, and business safety messages to the District's residents.

- Public Education

1. The District will work with schools within the District boundaries to develop ongoing relationships to ensure a fire prevention message is delivered at least once a year to all students.
2. The District will work with its wildfire prevention committee to keep the wildfire danger signs up-to-date.
3. The District will work with its wildfire prevention committee of residents to reach homeowners with information on wildland fuel reduction around their structures.
4. The District will contact each business to educate their personnel on fire prevention and extinguisher use bi-annually

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PLAN FOR FIRE STATIONS

This plan includes improvements of current stations, the creation of a new station and/or renovation of one or more stations, and the decommissioning of station(s).

Improvements of current stations:

Idledale Station: This station meets standards for a satellite station. Problems with this station include difficult access and limited parking. Improvements for this station should be an exhaust ventilation system, and paving of the apron and parking area.

Grapevine Station: This station meets current standards for a garage type station and should be maintained as such. Improvements should be an exhaust ventilation system, improving the ditch drainage to the south and under the apron, paving the parking area, and installing an incinerator type toilet. Bringing water to the station should be considered.

Lookout Station: This station meets standards for a satellite station. Problems with this station are the inadequacies of the day room facilities and shower/bathroom. The day room facilities do not allow for gender separation. In addition the district offices are too small. Improvements should be an exhaust ventilation system, the shower/bathroom area, move and/or enlarge the day room facilities and district office, and repave the apron and parking area. The apron and parking area should last about 3 to 4 years under current use.

Mount Vernon Station: Meets current standards for a garage type station and should be maintained as such. The Mount Vernon Metro District wants this space back for their vehicles. If this station is going to be kept improvements should be an exhaust ventilation system, new window, repave the apron and parking, and improve the access to the side entrance. The apron of this station should last about 2 to 3 years under current use.

Rainbow Hills: This station meets current standards for a satellite station. Problems with this station is that the day room is too small and the heaters are too close to the backing paths of trucks. In addition, the day room facilities do not allow for gender separation. Improvements should be an exhaust ventilation system, window added in the day room facility, move or replace heaters so that they are out of the backing path of the trucks, and pave about a 50 X 50 apron in front of the station. Keep the parking and access lane recycled asphalt.

Foothills Fire Protection District

New Stations and/or Renovation of Stations

The Foothills Fire & Rescue (FFR) needs to meet the following objectives in either building a new station and/or renovating multiple stations in the next five(5) years. Meeting this objective will allow FFR to better serve the community and help in the retention and recruiting of firefighters.

- Training classroom for 40 to 50 people.
- Outdoor training area large enough for the addition of training props later.
- Day Room facilities large enough to accommodate a minimum of 10 firefighters.
- Weight/Fitness room.
- Bunking Facilities to house a minimum combination of five(5) female or male firefighters.
- Kitchen/Dining adequate to serve the number of firefighters that can bunk at the station plus additional firefighters and guests.
- Bathroom/Showers that can accommodate the number of firefighters that can be bunked at the station.
- Game room for foosball and Ping-Pong table and a couple other games.
- Office space for current and future staffing levels.

Staff includes Paid Employees, Chief Officers, and Fire Marshall.

A meeting room for 15 to 20 people would also be nice in the office space

- Secure and non-secure equipment storage.
Should be in one location to make for easy disbursement of equipment.
- Space for a workshop, air compressor, and other equipment so as to keep the bay and aisle ways clear of equipment.

These objectives do not cover all that can be included in a fire station. Additional information for typical space in a fire station can be found in The Fire Chief's Handbook by Robert Barr and John Eversole.

Any new or renovated station(s) should be built in accordance to local building codes pertaining to essential building types, all applicable NFPA standard, ADA requirements, and OSHA standards. The station should be designed and built with around-the-clock use in mind; therefore, all materials and support systems for the facility should be of high quality.¹

¹ Barr, Robert and John Eversole. The Fire Chief's Handbook. 6th ed. Oklahoma: PennWell, 2003. 433.

Foothills Fire Protection District

If a new station is going to be built it should contain the above objectives and allow for the decommissioning of one or more current fire stations.

If one or more stations are to be renovated the stations should contain the above objectives and allow for the paid responding staff and shift crew to be located at one station.

Decommissioning Fire Station

The FFR station committee recommends the decommissioning of the Mount Vernon Station as soon as possible. The committee also recommends finding land so that the Idledale Station can be rebuilt in the future or purchase the property across from Idledale to improve access to the station.

Foothills Fire Protection District

PLAN FOR APPARATUS

This plan includes the apparatus life expectancy, number of apparatus that Foothills Fire & Rescue should operate, and basic specifications for new apparatus.

Apparatus Life Expectancy

The life expectancy of a Foothills Fire & Rescue apparatus is twenty (20) years. That is with the apparatus serving fifteen (15) as a frontline apparatus and five (5) as a reserve apparatus. Reserve meaning that the apparatus is at a station where it is used the least. Some apparatus may need to be replaced at fifteen (15) years, because there is no way to move the apparatus out of frontline status into reserve.

Foothills Fire & Rescue apparatus should also be replaced if the apparatus is costing the department more money to maintain than is practical.

Number of Apparatus

Foothills Fire & Rescue should operate the following optimal number of apparatus to ensure that FFR can provide the appropriate response to all calls, even when apparatus are damaged or are out of service for repairs.

Type:	Number:
<i>Pumper</i>	4
Heavy Rescue	2
Light Rescue	2
Wildland	2
Tender	3
Command/Utility Vehicle	1
Total:	14

The four Pumpers listed above should be two Initial Attack Pumpers and two Standard Pumpers. If all apparatus listed above are acquired then it may be possible to use only (4) Initial Attack Pumpers instead of 2 Initial Attack Pumpers and 2 Standard Pumpers.

It may also be in Foothills Fire & Rescue's best interest to acquire more than one Command/Utility Vehicle in order to provide department personnel with a vehicle for working with the public, and performing jobs for the department.

Foothills Fire Protection District

New Apparatus Specifications

All new apparatus acquisitions should meet all current NFPA standards and local laws for that specific apparatus type. Every effort should be made in simplifying and standardizing the layout and operation between the same types of apparatus to allow for ease of training and maintenance. Below is a listing of basic requirements for each type of apparatus that Foothills Fire & Rescue may purchase.

Initial Attack Pumper: Foothills standard initial attack pumper will be a four-wheel drive apparatus that is Class A Pumper rated. It is to operate in all weather conditions on any road or driveway in the district. It has crew capacity of four with at least two SCBA seats, residential ladders, a minimum 600 gallon tank, minimum pumping capacity of 1250 gpm, and is meets NWCG type III certification. This unit should meet the department needs for structure fires, vehicle fires, and wildland events.

Standard Pumper: The Foothills standard pumper will be a four-wheel drive apparatus that is Class A Pumper rated. It is to operate in all weather conditions primarily on standard roads. It has crew capacity of five or more with at least two SCBA seats. Pumping capacity will be a minimum of 1500 gpm. Will have a capacity of at least 1,000 gallons of tank water. On board ladders should be longer than residential ladders with appliances and hose packs primarily for commercial, structure events, and vehicle fires.

Heavy Rescue: Foothills will have standard four-wheel drive heavy service trucks to transport specialty rescue equipment for Fires, Medical, Haz-mat, and Extrication responses. It is able to operate in all weather conditions primarily on standard roads.

Light Rescue: Foothills will have standard four-wheel drive pickup service trucks to transport specialty rescue equipment for Medical, Rope Rescue, Water Rescue, and Basic Extrication Responses. It is able to operate in all weather conditions on any road or driveway in the district.

Standard Wildland Truck: Foothills will have standard wildland trucks specifically equipped for wildland fires and back country travel. These units will be on standard four-wheel drive pickup trucks with or without crew cabs that meet type six standards.

Water Tenders: Foothills will have standard water tenders to achieve 500 gpm delivery rate with mutual aid tenders to support additional rates of flow. Water capacity will be either 2,000 or 2,500 gallons with a 500 gpm pump on each. The 2,000 gallon size unit will be four-wheel drive.

Command/Utility Vehicle: Foothills will maintain an appropriate number of four wheel drive command/utility vehicles for residential medical calls, crew transport, fire inspection, meetings, and to serve as a mobile command post.

Foothills Fire Protection District

PLAN FOR PERSONNEL

District Employees: The District needs administrative employees to manage the day to day functions of the District and the Department. These duties include financial management, accounts payable and receivable, purchasing management, reporting requirements, grant administration, file and equipment maintenance, legal compliance, code enforcement, data entry, fleet and facilities maintenance and other basic business and operation functions. Currently the staff of the District consists of a District Administrator, Administrative Assistant, Operations Assistant, and a Fire Inspector. Some of these positions are “response eligible” to supplement the ability of the District to respond to emergency calls during working hours.

Currently there are no significant changes in the paid staff projected in the near future. However, the department may add a paid Fire Marshall and explore the possibility of a paid Chief position which may affect some of the above positions,

Volunteers: The backbone of the department is its volunteer firefighters. An active and aggressive recruiting and retention program is needed to ensure an adequate response component of the membership. This may be the most challenging activity for the Department in view of the changing nature of the community and Fire Service.

With the NFPA’s adoption of the 1720 standard for Volunteer Fire Departments the District wishes to work towards ensuring a general compliance with the standard. The District will strive to ensure that at any time 24 hours a day, 7 days a week, there is an adequate number of trained firefighters available to respond to an emergency call with the necessary apparatus and equipment. The District will explore alternatives in the coming years to see how it can best work towards meeting these goals.

Foothills Fire Protection District

MAINTAINING THIS PLAN

This long range plan is a living document which must change, sometimes significantly, from year to year. This will require effort and participation from the Community, the Board, the Officers and the Members. The needs of our community and advances in technology must be considered with each revision.

Foothills Fire Protection District

EXHIBITS

Foothills Fire Protection District

Appendix A **Land Distribution**

Of the 25.2 Square miles that the District protects approximately 3.2 square miles are Denver Mountain Park land and 2.2 square miles are Jefferson County Open Space. The District also provides fire suppression for approximately an additional 6.4 square miles of unprotected property. The majority of this unprotected property is in public ownership (Denver Mountain Parks and Jefferson County Open Space each own approximately 2.2 square miles each of this unprotected property.)

Geographic Distribution of Land Protected by District **(Square Miles)**

	Within District boundaries	Outside District boundaries but protected by the District Resources
City and County of Denver	3.2 Sq. Miles	2.2 Sq. Miles
Jefferson County Open Space	2.2 Sq. Miles	2.2 Sq. Miles
Other Tax Exempt Properties (Schools, Churches, Non-Profit held properties, etc.)	0.6 Sq. Miles	0.0 Sq. Miles
Commercial (Retail, Communications, etc.)	.2 Sq. Miles	0.0 Sq. Miles
Residential and Other	19.0 Sq. Miles	2.0 Sq. Miles
Total	25.2 Sq. Miles	6.4 Sq. Miles

Foothills Fire Protection District

Appendix B

Break Down of Properties by use

Foothills Fire Protection District

LIST OF COMMERCIAL, INDUSTRIAL, AND UTILITY PROPERTIES PROTECTED BY THE DISTRICT.

Owner's Name	Street #	Dir	Street Name	Type	Sq. Feet	Assessed Value	Notes
ADAMS CUSTOM HOMES INC	22204		FOREST HILLS	DR	0	0	CONSTRUCTION
ADVANCED NATIONWIDE MESSAGING			JEFFERSON COUNTY		0	36100	PUBLIC UTILITY - FHFPD
AMERICAN MEDICAL RESPONSE			LOOKOUT MOUNTAIN		0	0	RADIO TRANSMITTER
ARCH WIRELESS			JEFFERSON COUNTY		0	46780	PUBLIC UTILITY - FHFPD
AT&T BROADBAND			JEFFERSON COUNTY		0	69590	PUBLIC UTILITY - FHFPD
AT&T BROADBAND MTN STATES/VIDEO LLC	02504	S	GRAPEVINE	RD	0	185420	DISK OR TOWER-GENESEE
AT&T WIRELESS SERVICES OF COLO INC			JEFFERSON COUNTY		0	79640	PUBLIC UTILITY - FHFPD
BARTH EUGENE	00163	S	PARADISE	RD	0	0	MING TREE-LOOKOUT MTN
BEAR CREEK DEVELOPMENT CORP	02504	S	GRAPEVINE	RD	1742400	97060	
BEAR CREEK DEVELOPMENT CORP			OFF GRAPEVINE	RD	1537822	36450	
BEAR CREEK DEVELOPMENT CORPORATION	21659		STATE HWY 74		7853	26100	IDLEDALE POST OFFICE PER LEASE AGREEME
BENEDEK BROADCASTING CORPORATION	00000		LOOKOUT MOUNTAIN		0	5880	KKTV
BIOTACTIX LLC	00637		MONTE VISTA	RD	0	0	BIOTACTIX
BRANNAN SAND & GRAVEL			LOOKOUT MOUNTAIN		0	0	RADIO TRANSMITTER
BURKS FAMILY TRUST THE	00306	S	LOOKOUT MOUNTAIN	RD	21780	98340	
CANON FINANCIAL SERVICES INC	00000		GOLDEN AREA		0	130	LEASE-SERVICES INTEGRATION
CANYON ANIMAL HOSPITAL	24059		US HWY 40		0	810	CANYON ANIMAL HOSPITAL
CINGULAR WIRELESS	00000		LOOKOUT MTN		0	1210	TOWER
CIT COMMUNICATIONS FINANCE CORP	21073		SKY MEADOW	LN	0	170	LEASE-A-1 AUTO CENTER
CIT TECHNOLOGY FINANCING SERVICES	00099		DEKKER	DR	0	190	LEASE-RAPIDS AT EVERGREEN
CITICORP VENDOR FINANCE	00290		SKYHILL	DR	0	570	LEASE-BOW VALLEY LLC
CODY INN	00866		LOOKOUT MOUNTAIN	RD	0	710	CODY INN
COLE FORREST E	24059		US HWY 40		43560	46910	

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COMBINED COMMUNICATIONS CORPORATION	21090	CEDAR LAKE	RD	4331	18210	
COMBINED COMMUNICATIONS CORPORATION		CEDAR LAKE	DR	5053	4950	
COMBINED COMMUNICATIONS CORPORATION		CEDAR LAKE	RD	7375	5830	
CORBAN COMMUNICATIONS INC SITE 1025	00000	LOOKOUT MOUNTAIN		0	2760	COMMUNICATION EQUIP
CRYSTAL ROSE	00636	LOOKOUT MOUNTAIN	RD	0	880	CRYSTAL ROSE
DEUTSCHE FINANCIAL SERVICES	00840	KACHINA	CIR	0	820	LEASE-AGGREKO INC
DFS SPV LP	28776	SUMMIT RANCH	DR	0	560	LEASE-JON E LEO MD
DRUCKER DAVID M	29833	RUBY RANCH	RD	123667	60320	
ECOLAB INC	00636	LOOKOUT MOUNTAIN	RD	0	860	LEASE-CRYSTAL ROSE
ELCO DRILLING CO INC		LOOKOUT MOUNTAIN		0	130	RADIO TRANSMITTER
EMMIS COMMUNICATIONS	01096	LOOKOUT MOUNTAIN	RD	0	171230	CHANCELLOR BROADCAST
ENCHANTED FOREST KENNELS	24060	US HWY 40		0	220	
ENGWIS INVESTMENT CO LTD	00512	LOOKOUT MOUNTAIN	RD	63175	52220	
FINANCIAL PACIFIC LEASING LLC	21073	SKY MEADOW	LN	0	5800	LEASE-DENVER WEST HAIR
FONTANE CHRISTINE A	00636	LOOKOUT MOUNTAIN	RD	49200	147670	CRYSTAL ROSE
FOX TELEVISION STATIONS INC	00000	CEDAR LAKE	RD	7250	4280	
FOX TELEVISION STATIONS INC	00000	CEDAR LAKE	RD	3485	6270	
FOX TELEVISION STATIONS INC	00000	CEDAR LAKE	RD	12671	2960	
FOX TELEVISION STATIONS INC	00000	CEDAR LAKE	RD	8712	2030	
FOX TELEVISION STATIONS INC	21214	CEDAR LAKE	RD	0	167580	TOKLER STATION/KDVR CHANNEL 31
FOX TELEVISION STATIONS INC	21214	CEDAR LAKE	RD	13556	19490	
FOX TELEVISION STATIONS INC	21214	CEDAR LAKE	RD	8060	185690	KDVR - TV
GE CAPITAL INFOR TECHNOLOGY SOLUTIONS INC	21759	CABRINI	BLVD	0	950	LEASE-DAVID A CLINGER E ASSOC
GE CAPITAL MODULAR SPACE	00000	GOLDEN AREA		0	7850	LEASE-VARIOUS SITES
GIRL SCOUTS OF AMERICA GROUP W TELEVISION STATIONS INC	25419	MT VERNON CANYON	RD	0	14460	
GROUP W TELEVISION STATIONS INC	21119	CEDAR LAKE	RD	4495	14940	
GROUP W TELEVISION STATIONS INC	21119	CEDAR LAKE	RD	6089	10780	
GROUP W TELEVISION STATIONS INC	21119	CEDAR LAKE	RD	2090	490	
GRP W/CBS TELEVISION STATIONS PARTNE	21119	CEDAR LAKE	RD	0	162430	TOWER-LOOKOUT MTN KCNC TV

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GUARDIAN TITLE AGENCY LLC #1843	25188	GENESEE TRAIL	RD	0	1840	GUARDIAN TITLE AGENCY LLC PC 1843	
H W STEWART INC	00987	LOOKOUT MOUNTAIN	RD	0	3030	H W STEWART INC	
HARRO JOLEIN A	21878	MILLER	LN	0	890	ATTORNEY	
IBM CREDIT CORP	00411	SUNRISE	DR	0	300	LEASE-CISCO SYST	
INCOME MANAGEMENT INC	21878	MILLER	LN	0	240	INCOME MGMT INC	
INTERCORE CORP	28755	SUMMIT RANCH	DR	0	0	INTERCORE CORP	
JANKU GEORGE J	00866	LOOKOUT MOUNTAIN	RD	21083	42850	CODY INN	
JANKU GEORGE J	00866	LOOKOUT MOUNTAIN	RD	19280	200		
K O S I	21079	CEDAR LAKE	RD	0	83850	RADIO TRANSMITTER-LOOKOUT MTN	
K49CC KCEC TV KBPI-KHIH AM FM RADIO BROADCASTING INC	01096	LOOKOUT MOUNTAIN	RD	0	74870	K49CC RADIO TRANSMITTER	
KOAA-TV	21119	CEDAR LAKE	RD	0	9280	TRANSMITTER	
KOA-Q	21119	CEDAR LAKE	RD	0	3000	KOAA-TV-LOOKOUT MTN	
KORDOF CORPORATION	00858	EASTWOOD	DR	0	37910	TRANSMITTER/KOA/Q	
KRFX	21119	CEDAR LAKE	RD	0	1850	KORDOF CORP FOX 103.5/ EQUIPMENT AT TRANSMITTER SITE	
KUGELER JAMES W	21689	CABRINI	BLVD	0	11780	DISTRIBUTOR-MISC	
KWGN INC	01006	LOOKOUT MOUNTAIN	RD	0	540	KWGN CHANNEL 2 TRANSMITTER SITE	
KWGN INC	01006	LOOKOUT MOUNTAIN	RD	57900	65990	39520	KWGN-TV 2 TOWERS
KWGN INC		VACANT LAND		10000		200	
LANDMARK BROKERS REALTY	00306	S LOOKOUT MOUNTAIN	RD	0	0	REAL ESTATE OFFICE	
LANIER WORLDWIDE INC	00824	NEVILLE	LN	0	140	LEASE-DUPONT	
LEVY M JEFFREY LINC EQUIPMENT RECEIVABLES ONE LLC	01136	LOOKOUT MOUNTAIN	RD	21780	46680		
LINC EQUIPMENT RECEIVABLES ONE LLC	00331	CORPORATE	CIR	0	2750	LEASE-SPECTRA CONST	
LUSTIG SUSAN M	24969	US HWY 40		0	990	LEASE-JERRI WEIKEL/SPIRIT WIN	
MC GRAW-HILL BROADCASTING CO INC	00946	LOOKOUT MOUNTAIN	RD	10817	75930		
MCENCROE PAUL R	21200	CEDAR LAKE	RD	0	98830	KMGH TV BRDCAST TRNSMTR-LOOKOUT MTN	
MCGRAW HILL INC	29259	US HWY 40		62421	60260		
MCGRAW HILL INC	21200	CEDAR LAKE	RD	7400	12730		
MCGRAW HILL INC	21200	CEDAR LAKE	RD	2325	6580		
MOUNTAIN CONTOURS CORP	01056	LOOKOUT MOUNTAIN	RD	10890	2540		
MULTIMEDIA HOLDINGS	21090	CEDAR LAKE	RD	0	71040	TV TRANSMITTER-CHANNEL 9-LOOKOUT	

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CORPORATION					MTN	
NCE COMMUNICATIONS			JEFFERSON COUNTY	0	8080	PUBLIC UTILITY - FHFPD
NEWCOURT COMMUNICATIONS						
FINANCE CORP	21073		SKY MEADOW LN	0	720	LEASE-A-1 AUTO ELECTRIC CO
NEWCOURT FINANCE USA	00306	S	LOOKOUT MOUNTAIN RD	0	2470	LEASE-BURLSTONE INC
NEXTEL WEST CORP			JEFFERSON COUNTY	0	49400	PUBLIC UTILITY - FHFPD
NOBLE BROADCAST OF SEATTLE INC	01096		LOOKOUT MOUNTAIN RD	10962	11350	TRANSMITTER BUILDING
OMNIAMERICA INC	21190		CEDAR LAKE RD	5837	21550	
PETERSON RUSSELL C	24969		US HWY 40	67347	41180	LIVING & HEALING ARTS CENTER
PETROLEUM WHOLESALE INC	18561		US HWY 40	0	390	PETROLEUM WHOLESALE INC
PETROLEUM WHOLESALE INC 502	18561		US HWY 40	0	22200	CONOCO GAS STATION
PINNACLE TOWERS INC	00865		COLOROW RD	0	6400	MICRO-WAVE TOWER-LOOKOUT MTN
PINNACLE TOWERS INC	00865		COLOROW RD	9836	6060	
PINNACLE TOWERS INC	11534		PLAINVIEW RD	0	20360	JEFFERSON (ELDORADO MTN. 0352-001)
PUBLIC SERVICE CO OF COLORADO			JEFFERSON COUNTY	0	167800	PUBLIC UTILITY - FHFPD
QWEST CORP			JEFFERSON COUNTY	0	475000	PUBLIC UTILITY - FHFPD
QWEST WIRELESS LLC			JEFFERSON COUNTY	0	5770	PUBLIC UTILITY - FHFDD
ROBINS NEST RESTAURANT	00946		LOOKOUT MOUNTAIN RD	0	0	ROBINS NEST RESTAURANT
ROGER KIRLIN AUTO SALES INC	22324		ANASAZI ST	0	770	
SIH LTD	00836		LOOKOUT MOUNTAIN RD	20133	28150	BUFFALO CORRAL RESTAURANT
SILVERMAN DAVID W	24060		US HWY 40	217800	59190	
SPECTRASITE COMMUNICATIONS INC CO-0031	21210		CEDAR LAKE RD	0	6120	CELLULAR TOWER CO-0031
STUDIO MUELLER INC	00095		LOOKOUT MOUNTAIN RD	0	260	ARCHITECTS
SUMMIT FUNDING GROUP INC	18561		US HWY 40	0	670	LEASE-SUNMART 502
SUN DEVELOPMENT INC	18541		US HWY 40	235234	102620	40 HI INN
SUN MART STORE 502	18561		US HWY 40	0	6980	
TIGUE RAYMOND E TRUSTEE	21727		MOUNTSFIELD DR	2483	3070	LEASED TO PINNACLE TOWERS INC
TOWER ASSET SUB INC	21170		CEDAR LAKE RD	4288	5020	
TOWER ASSET SUB INC	21216		CEDAR LAKE RD	13485	31580	
TRANS MOUNTAIN GROUP	00123	S	PARADISE RD	0	550	OFFICE
TRI STATE GEN & TRANS ASSOC INC			JEFFERSON COUNTY	0	390	PUBLIC UTILITY - FHFPD
TRIBUNE DENVER RADIO INC	21079		CEDAR LAKE RD	7492	9060	

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US BANCORP EQUIPMENT FINANCE INC	21750		STATE HWY 74		0	39570	LEASE-VELDHOUSE LEE
VELDHOUSE LEE H	21750		STATE HWY 74		8293	40950	
VERIZON WIRELESS (VAW) LLC			JEFFERSON COUNTY		0	260970	PUBLIC UTILITY - FHFPD
VFS FINANCING INC	28127		MEADOWLARK	DR	0	1660	LEASE-KING CONSULTING
VFS LEASE RESIDUAL HOLDING LLC	00636		LOOKOUT MOUNTAIN	RD	0	7260	LEASE-CRYSTAL ROSE
VFS RESIDUAL HOLDING LLC	20189		CABRINI	BLVD	0	1090	LEASE-ARCH DIOSESE OF DENVER
VINCENT GROUP THE	00740		SUMMERWOOD	DR	0	3600	THE VINCENT GROUP
VOICESTREAM PCS II WIRELESS			JEFFERSON COUNTY		0	169790	PUBLIC UTILITY - FHFPD
WALT WHITMAN SOFTWARE INC	00192		PARADISE	RD	0	0	WHITMAN SOFTWARE
WELLS FARGO FINANCIAL LEASING INC	00306	S	LOOKOUT MOUNTAIN	RD	0	1820	LEASE-BURLSTONE INC
WERNER BRUCE	24130		US HWY 40		0	1410	B & B REPRODUCTIONS
WESTERN TELE-COMMUNICATIONS INC	00865		COLOROW	RD	0	63110	MICROWAVE STATION-LOOKOUT MTN
WESTERN TELE-COMMUNICATIONS INC	00865		COLOROW	RD	0	2260	MORRISON EARTH STATION
WESTERN TELE-COMMUNICATIONS INC	00865		COLOROW	RD	0	3220	MORRISON MICROVAVE LOCATION

LIST OF CITY OF DENVER OWNED LAND PROTECTED BY THE DISTRICT

Owner's Name	Street #	Dir	Street Name	Type	Sq. Feet	Assessed Value	Notes
CITY & COUNTY OF DENVER			VACANT LAND		2635859	35520	BUFFALO BILLS GRAVE & MUSEUM SITE
CITY & COUNTY OF DENVER			VACANT LAND		16033042	50290	CORWINA PARK
CITY & COUNTY OF DENVER			VACANT LAND		19650090	61350	GENESEE PARK
CITY & COUNTY OF DENVER			VACANT LAND		20291478	109680	GENESEE PARK
CITY & COUNTY OF DENVER			VACANT LAND		1611981	16780	GENESEE PARK
CITY & COUNTY OF DENVER			VACANT LAND		2178000	19330	KATHERINE CRAIG PARK
CITY & COUNTY OF DENVER			VACANT LAND		15681600	89780	LITTLE PARK
CITY & COUNTY OF DENVER			VACANT LAND		149411	18390	LOOKOUT MOUNTAIN PARK
CITY & COUNTY OF DENVER			VACANT LAND		51401	7630	PARK

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CITY & COUNTY OF DENVER	VACANT LAND	10454400	176440	RED ROCKS PARK
CITY & COUNTY OF DENVER	VACANT LAND	355798	15050	STARBUCK PARK

LIST OF CITY OF GOLDEN OWNED LAND PROTECTED BY THE DISTRICT

Owner's Name	Street #	Dir	Street Name	Type	Sq. Feet	Assessed Value	Notes
CITY OF GOLDEN			VACANT LAND		4792	860	

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Foothills Fire Protection District

LIST OF JEFFERSON COUNTY OWNED LAND PROTECTED BY THE DISTRICT

Owner's Name	Street #	Dir	Street Name	Type	Sq. Feet	Assessed Value	Notes
JEFFERSON COUNTY	00000		APEX RD & PINE VIEW	AVE	36329	7980	NATURE AND CONFERENCE CENTER - OPEN
JEFFERSON COUNTY	00584		COLOROW	RD	38246	69070	SPACE
JEFFERSON COUNTY	00910		COLOROW	RD	58283	135720	NATURE AND CONFERENCE CENTER - OPEN
JEFFERSON COUNTY	00910		COLOROW	RD	29751	13820	SPACE
JEFFERSON COUNTY	00910		COLOROW	RD	58850	20670	NATURE AND CONFERENCE CENTER - OPEN
JEFFERSON COUNTY	00910		COLOROW	RD	11369	11660	SPACE
JEFFERSON COUNTY	00910		COLOROW	RD	51444	27650	NATURE AND CONFERENCE CENTER - OPEN
JEFFERSON COUNTY	00000		COUNTY HWY 93		8329413	124270	
JEFFERSON COUNTY	02504	S	GRAPEVINE	RD	8712000	147470	NORTH TOWER TRANS STATION & HOUSE
JEFFERSON COUNTY			MTN PRPTY		4615182	180	
JEFFERSON COUNTY			MTN PRPTY		9367578	128250	LAIR O THE BEAR PARK
JEFFERSON COUNTY	00000		ST HWY 6 (APPROX)		1628273	146340	
JEFFERSON COUNTY	21219		STATE HWY 74		8370	350	
JEFFERSON COUNTY	21750		STATE HWY 74		201	200	
JEFFERSON COUNTY	24200		US HWY 40		59677	10170	LOOKOUT MOUNTAIN SHOPS
JEFFERSON COUNTY			VACANT LAND		7057	200	
JEFFERSON COUNTY			VACANT LAND		7492	200	
JEFFERSON COUNTY			VACANT LAND		9075	280	
JEFFERSON COUNTY			VACANT LAND		21780000	578140	
JEFFERSON COUNTY			VACANT LAND		19815	1470	
JEFFERSON COUNTY			VACANT LAND		1311156	30380	
JEFFERSON COUNTY			VACANT LAND		13199	53920	
JEFFERSON COUNTY			VACANT LAND		12414600	325230	
JEFFERSON COUNTY			VACANT LAND		522720	9660	

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JEFFERSON COUNTY	VACANT LAND	1742400	48950
JEFFERSON COUNTY	VACANT LAND	3484800	20300
JEFFERSON COUNTY	VACANT LAND	78364	1380
JEFFERSON COUNTY	VACANT LAND	11325600	65520
JEFFERSON COUNTY	VACANT LAND	13991036	195610
JEFFERSON COUNTY	VACANT LAND	750	200
JEFFERSON COUNTY	VACANT LAND	3161630	13090
JEFFERSON COUNTY	VACANT LAND	13285800	64750
JEFFERSON COUNTY	VACANT LAND	4009306	116540
JEFFERSON COUNTY	VACANT LAND	5695470	79630
JEFFERSON COUNTY	VACANT LAND	392563	12310
JEFFERSON COUNTY	VACANT LAND	1157476	41560
JEFFERSON COUNTY	VACANT LAND	23422821	419180MATHEWS/WINTERS PARK (OPEN SPACE)

LIST OF SPECIAL DISTRICT OWNED LAND PROTECTED BY THE DISTRICT

Owner's Name	Street #	Dir	Street Name	Type	Sq. Feet	Assessed Value	Notes
FOOTHILLS FIRE PROTECTION DISTRICT	21698		MILLER	LN	2170	18890	IDLEDALE STATION
FOOTHILLS FIRE PROTECTION DISTRICT	00893	S	GRAPEVINE	RD	6970	9430	GRAPEVINE STATION
FOOTHILLS FIRE PROTECTION DISTRICT	01189	S	LININGER	DR	16074	2670	VACANT LAND
FOOTHILLS FIRE PROTECTION DISTRICT	00801		STATE HIGHWAY 74		78931	43900	RAINBOW HILLS STATION
FOOTHILLS FIRE PROTECTION DISTRICT	00067	S	LOOKOUT MOUNTAIN	RD	27280	74790	LOOKOUT MOUNTAIN STATION
FOREST HILLS METROPOLITAN DISTRICT	22663		ANASAZI	WAY	175547	200	
FOREST HILLS METROPOLITAN DISTRICT	00935		CASTLE RIDGE	RD	50965	5890	
FOREST HILLS METROPOLITAN DISTRICT	00935		CASTLE RIDGE	RD	5227	200	
FOREST HILLS METROPOLITAN DISTRICT	22594		FOREST HILLS	DR	6098	200	

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DISTRICT					
FOREST HILLS METROPOLITAN DISTRICT	22884	FOREST HILLS	DR	230868	146440
FOREST HILLS METROPOLITAN DISTRICT	00860	HILL AND DALE	RD	367646	18190
FOREST HILLS METROPOLITAN DISTRICT		VACANT LAND		267894	14280
FOREST HILLS METROPOLITAN DISTRICT		VACANT LAND		116741	12940
FOREST HILLS METROPOLITAN DISTRICT		VACANT LAND		650786	27100
FOREST HILLS METROPOLITAN DISTRICT		VACANT LAND		7405	410
FOREST HILLS METROPOLITAN DISTRICT		VACANT LAND		17424	200
FOREST HILLS METROPOLITAN DISTRICT		VACANT LAND		43124	1000TRACT A
FOREST HILLS METROPOLITAN DISTRICT		VACANT LAND		254826	5930TRACT B
FOREST HILLS METROPOLITAN DISTRICT		VACANT LAND		16117	200TRACT C
FOREST HILLS METROPOLITAN DISTRICT		VACANT LAND		6534	200TRACT O
FOREST HILLS METROPOLITAN DISTRICT	23055	WHISPERING WOODS		10454	200
GENESEE WATER AND SANITATION DISTRICT		VACANT LAND		261360	31340
IDLEDALE WATER & SANITATION DISTRICT		VACANT LAND		2483	1190
IDLEDALE WATER & SANITATION DISTRICT		VACANT LAND		2500	200
IDLEDALE WATER & SANITATION DISTRICT		VACANT LAND		1800	200
IDLEDALE WATER & SANITATION DISTRICT		VACANT LAND		2500	200
IDLEDALE WATER & SANITATION DISTRICT		VACANT LAND		295	200
IDLEDALE WATER & SANITATION DISTRICT		VACANT LAND		12917	16550
IDLEDALE WATER & SANITATION DISTRICT		VACANT LAND		1312	640
JEFFCO R1 SCHOOL DIST	25856	COLUMBINE GLEN	AVE	435600	826010RALSTON ELEMENTARY SCHOOL
JEFFCO R1 SCHOOL DIST	21429	STATE HWY 74		73625	7320RED ROCKS ELEMENTARY SCHOOL
LOOKOUT MOUNTAIN WATER	00986	LOOKOUT MOUNTAIN	RD	13068	44490

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DISTRICT				
LOOKOUT MOUNTAIN WATER				
DISTRICT		VACANT LAND	5250	8310
MOUNT VERNON COUNTRY CLUB				
METRO DIST	25171	ASPEN	WAY	0
MOUNT VERNON COUNTRY CLUB				28190
METRO DIST	25181	ASPEN	WAY	0
MOUNT VERNON COUNTRY CLUB				19630
METRO DIST	25201	CENTENNIAL	TRL	0
MOUNT VERNON COUNTRY CLUB				18070
METRO DIST	24933	CLUB HOUSE	CIR	0
MOUNT VERNON COUNTRY CLUB				21740
METRO DIST	24933	CLUB HOUSE	CIR	0
MOUNT VERNON COUNTRY CLUB				17100
METRO DIST	24933	CLUB HOUSE	CIR	264409
MOUNT VERNON COUNTRY CLUB				908430
METRO DIST	24933	CLUB HOUSE	CIR	6984498
MOUNT VERNON COUNTRY CLUB				84380
METRO DIST	24933	CLUB HOUSE	CIR	2500
MOUNT VERNON COUNTRY CLUB				4130
METRO DIST		CLUBHOUSE CIRCLE	2500	1130
MOUNT VERNON COUNTRY CLUB				
METRO DIST		MTN PRPTY	223332	10930
MOUNT VERNON COUNTRY CLUB				
METRO DIST		VACANT LAND	131	920
MOUNT VERNON COUNTRY CLUB				
METRO DIST		VACANT LAND	0	1070
MOUNT VERNON COUNTRY CLUB				
METRO DIST		VACANT LAND	0	200
MOUNT VERNON COUNTRY CLUB				
METRO DIST		VACANT LAND	0	200
MOUNT VERNON COUNTRY CLUB				
METRO DIST		VACANT LAND	80	16840
MOUNT VERNON COUNTRY CLUB				
METRO DIST		VACANT LAND	0	200
MOUNT VERNON COUNTRY CLUB				
METRO DIST		VACANT LAND	0	16090
MOUNT VERNON COUNTRY CLUB				
METRO DIST		VACANT LAND	0	1530
MOUNT VERNON COUNTRY CLUB				
METRO DIST		VACANT LAND	0	610
MOUNT VERNON COUNTRY CLUB				
METRO DIST		VACANT LAND	0	1840
MOUNT VERNON COUNTRY CLUB				
METRO DIST		VACANT LAND	0	200

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MOUNT VERNON COUNTRY CLUB METRO DIST	VACANT LAND	0	610
MOUNT VERNON COUNTRY CLUB METRO DIST	VACANT LAND	0	1070
MOUNT VERNON COUNTRY CLUB METRO DIST	VACANT LAND	0	16560
MOUNT VERNON COUNTRY CLUB METRO DIST	VACANT LAND	2200	2780
MOUNT VERNON COUNTRY CLUB METRO DIST	VACANT LAND	0	920
MOUNT VERNON COUNTRY CLUB METRO DIST	VACANT LAND	0	610
MOUNT VERNON COUNTRY CLUB METRO DIST	VACANT LAND	2404207	15470
MOUNT VERNON COUNTRY CLUB METRO DIST	VACANT LAND	51401	7480
MOUNT VERNON COUNTRY CLUB METRO DIST	VACANT LAND	0	1220
MOUNT VERNON COUNTRY CLUB METRO DIST	VACANT LAND	0	580
MOUNT VERNON COUNTRY CLUB METRO DIST	VACANT LAND	0	610
MOUNT VERNON COUNTRY CLUB METRO DIST	VACANT LAND	3125	2220
MOUNT VERNON COUNTRY CLUB METRO DIST	VACANT LAND	1045	2220

LIST OF ALL TAX EXEMPT PROPERTIES PROTECTED BY THE DISTRICT.

Owner's Name	Street #	Dir	Street Name	Type	Sq. Feet	Assessed Value	Notes
IDLEDALE COMMUNITY CHURCH CLEAR CREEK LAND CONSERVANCY	02805	SE	GRAPEVINE	RD	0	9920	
GENESEE-LOOKOUT MTN FOUNDATION	24100		US HWY 40		87120	50500	
GIRL SCOUTS OF DENVER HIGHLAND RESCUE TEAM	25485		GENESEE	AVE	435600	80620	
AMBULANCE SERVICE	00317	S	LOOKOUT MOUNTAIN	RD	12840	21030	
NORTHWOODSIDE INC	00850		BALLANTINE	RD	0	17400	

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NORTHWOODSIDE INC	00691	CLOVERDALE	RD	65776	25210	
NORTHWOODSIDE INC		VACANT LAND		17860	1920	
NORTHWOODSIDE INC		VACANT LAND		0	8700	
NORTHWOODSIDE INC		VACANT LAND		10192125	16620	
NORTHWOODSIDE INC	00622	COLEMAN	DR	178570	41050	
NORTHWOODSIDE INC	00622	COLEMAN	DR	84332	31670	
NORTHWOODSIDE INC		VACANT LAND		17498	17230	
NORTHWOODSIDE INC	00622	COLEMAN	DR	2483	7930	
NORTHWOODSIDE INC		VACANT LAND		125121	153450	
CORP OF THE PRES BISH OF LDS DEN WEST		VACANT LAND		3720	142870	
IDLEDALE COMMUNITY CHURCH		MTN PRPTY		6839	8430	
IDLEDALE COMMUNITY CHURCH		VACANT LAND		6042	14600	
MISSIONARY SISTERS OF THE SACRED HEART	20189	CABRINI	BLVD	3354555	838150	EXEMPT PORTION
MOUNTAIN CHRISTIAN FELLOWSHIP	00166	S LOOKOUT MOUNTAIN	RD	416259	259700	LOOKOUT MOUNTAIN COMMUNITY CHURCH
ROCKLAND MEMORIAL COMMUNITY CHURCH	00017	S MT VERNON CNTRY CLUB	RD	247753	687260	
ROCKLAND MEMORIAL COMMUNITY CHURCH	24225	ROCKLAND	RD	43560	31910	
COUNCIL FOR PUBLIC TELE CHANNEL 6 INC	00855	COLOROW	RD	12286	43230	KRMA TV TRANSMITTER BLDG & TOWER
LANDAU PENNY		VACANT LAND		6882	200	

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Appendix C

Water Supplies

There are portions of the district which are in proximity to a potential water source through hydrants which are not within the boundaries of the district. Namely, the properties on Morning Rose, Rock Rose, Copper Rose and Waynes Way are close to hydrants provided by the Genesee Water and Sanitation District.

The Lookout Mountain area is served by the Lookout Mountain Water District which maintains the Beaverbrook water line. Which runs from just South of Floyd Hill in Clear Creek County East to Buffalo Bill's Grave. This line varies in size from 20 inches to 8 inches and serves several hydrants. Over the years there have been several laterals installed off of this main. These laterals are maintained by the owners of the taps which feed off of them. Several of these laterals also have hydrants. The Lookout Mountain System feeds 75 Hydrants through it's main and the associated laterals from a 1,000,000 gallon reservoir which is situated above the El Rancho exit on I-70.

The Mount Vernon neighborhood is served by a water system operated by the Mount Vernon Metropolitan District. The District's maintains the entire distribution system to 26 hydrants which are fed by one 200,000 gallon storage tank on top of tower hill and three 25,000 gallon underground storage tanks at well number eight south west of the tennis courts.

Riva Chase is served by the Forest Hills Metropolitan District. Forest Hills maintains the entire distribution system to 27 hydrants which are fed by a 225,000 gallon storage tank.

Water in Idledale is provided by the Idledale Water District which maintains the entire distribution system to 11 hydrants which are fed by a 200,000 gallon storage tank.

The Genesee Crossing development and Ralston school are served by a 6 inch water main from the Genesee Water and Sanitation District. The Genesee Crossing main supports 15 Hydrants which are fed by the 1,200,000 Gallon storage tank maintained by the Genesee Water and Sanitation District.

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Characteristics of Water Districts (Data for Foothills service area only)

District	Area Served	Number of Hydrants	Reservoir Capacity
Lookout Mountain	North Corridor	75	1,000,000 Gallons
Idledale	Idledale	11	200,000 Gallons
Forest Hills	Riva Chase	27	225,000 Gallons
Genesee Crossing	MVCC Road	15	1,200,000 Gallons
Mount Vernon	MVCC	26	275,000 Gallons
Total		154	2,900,000 Gallons

Public Stationary Water Sources

Source	Location	Storage	Access/Reliability
Rainbow Hills Cistern	Skyhill Road & Rainbow Hills Road	30,000 Gallons	Gravity Fed Hydrant, Access Year Around
Summit Ranch Way Cistern	East side of cul-de-sac on Summit Ranch Way	12,000 Gallons	Dry Hydrant (~8 foot lift), Off east side of cul-de-sac. Connection is via 2½ inch connection (hard suction sections are stored on site)
Sunset Hills Cistern #1	Sawmill Gulch Road, 1 st Switchback below 1 st House	12,000 Gallons	Gravity Fed Hydrant, Access Year Around
Sunset Hills Cistern #2	Sawmill Gulch Road, In the center of the "Y" at the top of the road	12,000 Gallons	Gravity Fed Hydrant, Access Year Around
Cold Springs Ranch pond	Access off I-70 Exit 253 and Cold	Variable	Dry Hydrant (~8 foot lift for

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	Springs Gulch Road		drafting), Access Year Around
Cold Springs Gulch pond	Access off highway 74 and Cold Springs Gulch Road	Variable	No hydrant (~10 foot lift for drafting), seasonal availability
Cedar Lake Reservoir	Access off Cedar Lake Road or Lookout Mountain Road.	Variable	No hydrant (~10 to 20 foot lift for drafting), seasonal availability
Bear Creek	Multiple Access Points along Bear Creek Canyon	Variable	No hydrant (~ 5 to 15 foot lift for drafting), seasonal availability
Clear Creek	Multiple Access Points along Clear Creek Canyon	Variable	No hydrant (~ 5 to 15 foot lift for drafting), seasonal availability
Riva Chase Pond	Access Just past Guard Shack at entrance to Riva Chase on Forest Hills Road	Variable	No hydrant (~10 to 20 foot lift for drafting), seasonal availability
Mt Vernon Pond (seasonal)	Access off Mount Vernon Road just north of intersection with Lookout Mountain Road	Variable (Frequently Empty During Fall and Winter Months)	No hydrant (~ 5 to 15 foot lift for drafting), seasonal availability

Known Private Water Supplies.

(does not imply access to these water supplies for fires outside of the property owners control.)

Source	Location	Storage	Access/Reliability
Private Cistern	18561 US Highway 40 (Mt. Venon Conoco)	82,000 Gallons	Gravity Feed Hydrant, on North-East Corner of Property. Green and White Hydrant

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Private Cistern	28127 Meadowlark Drive	10,000 Gallons	Dry Hydrant (~8 foot lift), Off east side of driveway approximately 150 feet before house.
Private Cistern	28106 Meadowlark Drive	10,000 Gallons	Gravity Feed Hydrant, 20 feet off of Meadowlark on the left hand side for the Driveway
Private Cistern	28007 Meadowlark Drive	12,000 Gallons	Dry Hydrant (~8 foot lift), Approximately 200 feet down driveway from Meadowlark on the right hand side next to the gravel pass-by
Private Cistern	27946 Meadowlark Drive	10,000 Gallons	Dry Hydrant (~8 foot lift), Entrance of Drive off of Meadowlark on the right hand side next to the stone address plate.
Private Cistern	730 and 750 Genesee Mtn Rd.	10,000 Gallons	Dry Hydrant (~8 foot lift), Between the gates for the two properties.
Private Pond with Dry Hydrant	23156 US Highway 40 (Valley Creek Road Pond)	Variable	Dry Hydrant (~8 foot lift), Off south side of driveway approximately 150 feet before first house. Approximately 500 feet down driveway from US Highway 40.
Private Cistern	23534 Waynes Way	10,000 Gallons	Dry Hydrant (~8 foot lift), Off West Side of driveway approximately 100 feet before house on the uphill side.

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Private Cistern	525 Spring Ranch Drive	10,000 Gallons	Dry Hydrant (~8 foot lift), Off East Side of driveway approximately 100 feet up the driveway from Spring Ranch Drive.
Private Cistern	1034 Spring Ranch Drive	5,000 Gallons	Gravity Feed Hydrant, Off East Side of driveway approximately 20 feet before the house next to the rock stairs.
Private Cistern	24501 Ski Hill Road "Spaceship House"	10,050 Gallons	Gravity Feed Hydrant, Off East Side of driveway approximately 200 feet before house.

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Appendix D **Truck Inventory**

Truck Inventory

530 – 2000 International, 4800 Diesel, 4 wheel drive, automatic transmission, 1250 gpm pump, 1000 gallon tank, three person crew cab with two SCBA seats – adequate as a standard fire truck.

543 - 1994 E-1 Hyd. Gen. Diesel, 4 wheel drive, 1,250 gpm pump, 750 gallon tank, four place crew capacity with three SCBA seats. - adequate as standard fire truck.

544 - 1990 FMC, Spartan Diesel, automatic transmission, Onan Generator, two wheel drive, 1250 gpm pump, 1000 gallon tank, six person crew cab with two SCBA seats. - adequate as a standard fire truck

551 – 2002 Ford F550 Hybrid, Diesel, 4X4, Type VI Engine. Adequate as a wildland interface engine.

561 - 1996 International water tender, automatic transmission, diesel, no pump, 2500 gallons, quick dump, side dumps - meets water tender Type III standards.

570 - 2000 International, Diesel, 4 wheel drive, 3000 Gallon Port-A-Tank, Type II Tender w/ 500 gpm pump, and a 2000 gallon tank.

572 - 1959 6x6 diesel with a 1250 gpm pump holding 1000 gallons under Colorado State Forest Service contract.

586 – 1999 Ford Type I Ambulance currently under lease to Highland Rescue Team.

531 - 1986 General (International) 4 wheel drive diesel with automatic transmission. 1,000 gpm pump, 500 gallon tank, robwin foam unit. - adequate as an initial attack pumper.

581 - 1996 Heavy Rescue Truck, SVI International four wheel drive crew cab (6 place), automatic transmission, diesel - adequate as service truck.

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582 - 2003 Ford F-350 Pickup utility vehicle, personnel, command post - adequate as utility vehicle

583 - 1992 Suburban utility vehicle, personnel, command post, light rescue truck - adequate as utility vehicle

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Appendix E Technology Plan

Below are technologies which the district will investigate to evaluate the relativness to the Department's Operations. It is understood that just as technology is every growing and updating so too will this appendix. As new technologies are developed to better provide for the efficacy, safety, or operational quality of the District; management will have to continually evaluate the cost benefit of acquiring said technology.

- Radios – first-time clear communications from all locations in district to all other locations and headquarters.
- Computers in trucks radio updated with GPS – Computers in trucks show truck location and location of all other trucks on map anywhere in Jefferson County. Trucks able to transmit text messages between trucks and to stations. Trucks should be able to interface with the District's dispatch center's Computer Aided Dispatch System to obtain real-time information as well to be able to generate computerized incident reports for integration with the District's Database.
- Computers in stations – call reports and information provided to computers in each station.
- GPS units will be installed in each vehicle within the next two years. Within the next five years, Computers with detailed geographic databases and integrated GPS units will be installed in all Department vehicles which can show that vehicle's location from a "god's eye" view. Within ten years all vehicles will be equipped with a GPS-enabled computer with radio communications which will be able to show at all times where all Foothills vehicles are located.
- e-mail, voicemail and text paging for all members
- Infrared Thermal Imaging

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Appendix F **Neighborhood Descriptions**

(The Number Key to the enclosed map is next to the Neighborhood Name in Parenth)

Idledale (1)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

There are approximately 100 homes, one church, one government building (a Post Office), and one commercial building (a machine shop) in the Idledale community. Most buildings are of frame construction. Many of these structures are converted summer residences dating from the 1920's and 1930's. Construction standards are diverse. Most homes are built on hillsides potentially impacting access of emergency vehicles. Access is on county maintained dirt roads except for Shady Lane, which is maintained by residents.

Homes along Miller Lane and Shady Lane are susceptible to flooding by Bear Creek. Access to Shady Lane may be denied by flooding of Bear Creek.

Access to Bear Mountain is at the forks. The road is four wheel drive only and is steep in places. It gives access to Mountain terrain north and east of Idledale.

WATER SUPPLIES

The community of Idledale is served by the Idledale Water District. There are currently eight fire hydrants in the town. A limited flow hydrant is available through an access door in a retaining wall at 2805 E. Grapevine Road. The hydrants are connected to a 6 inch main. The hydrants are fed by a gravity flow reservoir. Flows of approximately 250 gpm are available from the hydrants.

- West Grapevine is served by a hydrant and could be supplemented by drafting from Bear Creek
- East Grapevine is served by a hydrant and could be supplemented by drafting from Bear Creek
- Central Idledale is covered by a hydrant above and east of the Post Office. Miller Lane will be covered by the Miller Lane hydrant and drafting from Bear Creek.
- Shady Lane will be covered by the Shady Lane hydrant and drafting from Bear Creek.
- East Idledale will be covered by a water shuttle and drafting from Bear Creek

The Idledale Water and Sanitation District plans to further improve its water mains and to add additional hydrants.

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Lininger Mountain (2)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

There are approximately 30 homes on Lininger Mountain. Most homes are of frame construction. The houses were chiefly built as year around residences within the last twenty years and range up to three stories. Roofs are mostly asphalt composition with some shake shingle. Lots average one acre or more. Some homes are on heavily wooded sites on hillsides. Access is good on county maintained blacktop roads but grades on private roads can get steep slowing response time for larger trucks. There is only one access road into this subdivision.

WATER SUPPLIES

Lininger Mountain has no water resources. The closest hydrant is at the South gate to Riva Chase at the corner of Lininger and Shingle Creek Roads. Plans for a cistern on the mountain should be developed and implemented. The District owns a tract of land in the area that might be used for this purpose. Water tenders would need to support any extended suppression activity.

Mount Vernon Country Club (3)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

The Mount Vernon Country Club has approximately 100 homes. The Mount Vernon Country Club and several support structures are run by the Mount Vernon Metropolitan District. Most homes are of frame construction. The houses were chiefly built as year around residences within the last twenty years and range up to three stories. Roofs are mostly asphalt composition with some shake shingle. Lots average one acre or more. Some homes are on heavily wooded sites on hillsides. Access is good on county maintained blacktop roads but grades on private roads can get steep slowing response time for larger trucks. Mount Vernon also includes many acres of open space and forest which may require water shuttles, 4-wheel drive brush trucks and / or wildfire fighting methods.

WATER SUPPLIES

The Mount Vernon Metropolitan District maintains its own water system. Hydrants are located near all residences.

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Riva Chase (4)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

There are approximately 55 homes in Riva Chase. These homes are mostly frame construction which have been constructed in the last ten years. Most homes are built on hillsides. Some have high elevations on three sides due to steep hillsides. Roofs are mostly fire retardant wood or tile with few shake shingle. Lot size varies from over one acre to four homes per acre on the Southeast side of the development. Access is good on association maintained blacktop roads with some steep and narrow driveways leading to secluded residences.

WATER SUPPLIES

Riva Chase is served by the Forest Hills Water and Sanitation District. Every residence is within 500 ft. from a hydrant. This system is pressurized and is gravity fed from a reservoir. Arrangements may need to be made with Forest Hills Metropolitan District to increase pumping capacity in case of a fire.

US Highway 40 Corridor and The Girl Scout Camp Area (5)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

Approximately 35 homes are located between I-70 and Hwy. 40 and along the Highway 40 corridor. Homes are mostly of frame construction with some being of masonry construction. Most homes were constructed within the last 30 years. Roofs are mainly asphalt composition with some tile roofs. This area has several CCC era “temporary” wood cabins used by the Girl Scouts for camping. The Jefferson County Lookout Mountain Road Shops, The Genesee Grange, The Highland Rescue station and a small enclave of businesses around the junction of US40 and Lookout Mountain Road are all in this area. Access may be limited on county maintained dirt roads with long and narrow driveways leading to secluded home sites.

WATER SUPPLIES

There is no reliable outside water source in the Hwy. 40 area except the hydrants along Mount Vernon Country Club Road, the one hydrant at the entrance to the Girl Scout Camp and the 80,000 gallon cistern at the Conoco complex near exit 259 of I-70. Homes are serviced by individual wells. Water tenders would need to support any extended suppression activity. 4-wheel drive wildfire units may be needed due to the urban interface situation and difficult access to some of these properties.

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North Cold Springs Gulch (6)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area has approximately 20 homes located directly South and West of the Chief Hosa Campground at exit #253. Access to these homes is from Cold Springs Gulch Road and a private drive off the mountain park road directly South of the campground. The roads and driveways to all of the homes in this area are dirt and/or gravel, very narrow, sometimes very steep, and offer little room to maneuver. Several homes may not be able to be safely reached by large firefighting equipment. The houses in this area are of older construction, wood sided, with asphalt or wood shake shingle roof. There is a significant lack of street signs, lights and readable addresses in this area.

WATER SUPPLIES

All of the homes are located in or near a dense pine forest. There are no ponds, cisterns or hydrants in the immediate vicinity. The nearest water sources are the hydrant at the Chief Hosa Campground (which is connected to the Lookout water system) and the pond at Spring Ranch. Water tenders would need to support any extended suppression activity. These water tenders may need to be supported by a 4-wheel drive brush/wildfire truck due to access restrictions.

Spring Ranch (7)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

Spring Ranch has approximately 60 homes or home sites. Spring Ranch is accessed by either Cold Springs Gulch Road on the South side of the Chief Hosa Campground, or by Spring Ranch Drive on the North side of the campground just South of I-70. Homes in this area are mostly frame & stucco sided with concrete shingle roofs. There are several with wood siding and shake shingle roofing.

Access to the homes is generally good. Most roads are paved, wide, and offer plenty of room for large equipment to maneuver. There are four short cul-de-sacs in the development. The cul-de-sacs are sufficiently large enough for turning around. Some home sites may be difficult to access depending on how they are developed. About 60% of the structures are in open meadow, the other 40% in dense pine forest and/or on the sides of the mountain. There are no hydrants or street lights, and some street addresses are difficult to read.

WATER SUPPLIES

Water tenders would need to support any extended suppression activity. The best available water source is a pond containing approximately 30 acre ft. of water located at

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the Southern end of the development. It is equipped with a dry hydrant. There is also the Lookout Mountain water storage tank on the hill on the North side of the development, although this is not currently a usable source of water for firefighting.

South Cold Springs (8)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

South Cold Springs has approximately 5 houses located directly South of Spring Ranch, where Spring Ranch Drive ends. There is a gate at the entrance to this area activated by a control box. Cold Springs Gulch gets narrow, and the terrain decidedly rougher the farther South one goes. The private road which bisects this area, and which is really an extension of Spring Ranch Drive, is dirt and gravel, very narrow, and offers little room for large equipment to maneuver. There are a variety of structures in this area, including several barns, corrals, and storage sheds. The majority of the homes are built mostly of wood siding and some stucco. Roofing materials include asphalt and wood shingles. Access to these homes is generally adequate, although two of the driveways are rather long, and the ability of large trucks to turn around may be impeded. There are no street lights or visible addresses.

WATER SUPPLIES

There are no real developed water sources in the area other than the dry hydranted pond in Spring Ranch. Water tenders would need to support any extended suppression activity.

Genesee Mountain Park (9)

Access is via the Genesee Mountain Road, which extends about 5 miles from exit #254 to exit #253 on the South side of I-70. There are four principal areas in the mountain park where structures are located:

- Chief Hosa Lodge and Campground Complex located at exit #253 of I-70.
- The Denver Mountain Park Complex consisting of the buffalo herd caretaker's residence and associated maintenance buildings are located next to the south fence of the herd enclosure.
- A small enclave of approximately 10 homes is located about halfway between exits #253 and #254.
- Twisted Pines is an enclave of 25 homes, located about 1 ½ miles from exit #254.

Although the mountain park road provides good access to the entire park, the road itself offers few areas to turn around. Access to structures, as well as wild fire areas, is limited. With the exception of the herd enclosure which can be seen from I-70, the terrain is heavily wooded and very steep. The driveways to the homes themselves are

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very narrow and in general are poorly maintained. There is little room to operate large fire equipment.

The homes in the small enclave and at the Denver Mountain Park Complex are older, with wood siding and/or shake or asphalt shingle roofs.

The homes in Twisted Pines are much larger and newer. They are constructed of a variety of different materials, including stucco, stone and wood siding with asphalt, shake and concrete tile roofs.

Access to the stone lodge and the campsites at the Chief Hosa Campgrounds is generally very good. The principal concerns at the Chief Hosa complex are the number of parked cars, which sometimes can impede access, and the increased possibility of brush fires started by campers

WATER SUPPLIES

In all of these areas (except the Chief Hosa Lodge) there are no close sources of water. Water tenders would need to support any extended suppression activity. The nearest hydrants are located at the Chief Hosa Lodge complex and at the Genesee Town Center near exit #254.

West US 40 And The Rainbow Hills Fire Station (10)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area has approximately 5 homes, a vacant commercial building (formerly the Observatory Restaurant and Gas Station), a vacated large sewage pond, one fire station (Foothills Fire Protection District's Rainbow Hills), and one rescue station (Alpine Rescue Team's Rescue Shack.) We anticipate additional commercial development in this area. Access is generally pretty good but the private driveways to the residences may at times be difficult to pass.

WATER SUPPLIES

There is a good hydrant at the Alpine Rescue station on the Lookout Mountain System and a second hydrant at El Rancho. There is also a hydrant at the intersection of Highway 40 and Soda Creek Road to serve the residences on the west side of this area.

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Rainbow Hills (11)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

There are approximately 50 homes in this area. Construction types range from log and stone homes built in the early 1900's to very modern construction with modern materials and construction techniques. This area has some new estate size homes as well as smaller and older residences. There are some access problems due to the side road pattern.

WATER SUPPLIES

There is a 30,000 gallon cistern near intersection with Rainbow Hills Road on Sky Hills Road. Water tenders would need to support any extended suppression activity. A secondary water source is the hydrant at Alpine Rescue. Most of the residences can be reached with a structural engine with a 1,000 gallon tank. Wildfire/brush engine may be needed for support due to dense timber.

Summit Ranch (12)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area has approximately 15 homes most of a modern construction type. Roads in this area are paved and adequate but private driveways may present access concerns due to narrow, long access roads with little or no passbys or turnaround points.

WATER SUPPLIES

An existing 12,000 gallon cistern needs modification to add a five inch storz connection. Water tenders would need to support any extended suppression activity.

Moss Rock (13)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area has approximately 25 homes. It has narrow steep roads and tight turns are required to access some residences and exposures. Homes are a combination of old cabin type residences and new large homes. The road splits into upper and lower Moss Rock.

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WATER SUPPLIES

Water supply will require use of a water shuttle from Chief Hosa. The residents should be encouraged to install water cisterns. A large capacity community cistern is needed.

Stapleton Drive (14)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area includes three homes and access to Denver Mountain Parks, the Denver Parks and Recreation High Rope Course, and the Beaver Brook Trail western trailhead. There are no hydrants. Water tenders would need to support any extended suppression activity

WATER SUPPLIES

Water tenders would need to support any extended suppression activity . Wildfire/brush units are needed due to heavy timber in area. Four wheel drive units will be needed to access the area to the west.

Columbine Glen, Rockland Church, and Ralston Elementary (15)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

There are approximately 70 homes, a large church, and an elementary school with several temporary classrooms. New construction is underway on Columbine Trail Road.

WATER SUPPLIES

The main hydrant serving this area is at the end of the Genesee water main. Hydrants from the Lookout Mountain Water District and Mount Vernon are also accessible from this area.in this area. Wildland/brush trucks should supplement responses due to heavy timber.

Genesee Crossing (16)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area has approximately 50 homes. The majority of the homes in this area were built in the late 1980's early 1990's on adequate paved streets. The homes all have smoke and heat detectors connected to a central alarm system.

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WATER SUPPLIES

The area has access to hydrants from the Genesee Water District throughout the neighborhood and from the Lookout Mountain Water District on the North and South sides of the neighborhood.

Cody Park (17)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

South Cody Park has approximately 100 homes and is served by hydrants with a 5" outlet located at the top of Pine Road and roughly 1/3 of the way down Pine road from the top. The area is served by several miles of narrow, winding gravel road. Access is available to the Beaver Brook Trail via the Ralston property. Access is a problem as there is only one way in or out. The road is dirt, has curves, and is on a grade. A four wheel drive engine with the ability to lay LDH followed by additional hose laying support engines will be required.

WATER SUPPLIES

Water tenders would need to support any extended suppression activity. Smaller brush units should be available to support operations due to big timber, limited access and little to no neighborhood wide wildfire mitigation efforts. Installation of a large capacity community cistern would greatly enhance the viability of an extended suppression effort.

Rilliet Park, Lookout Fire Station, and South Hess Ave. (18)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area has approximately 50 homes and is served by narrow, winding, steep, gravel / dirt roads with no water supply other than at the Lookout Fire Station on Lookout Mountain Rd.

WATER SUPPLIES

Water tenders would need to support any extended suppression activity. Large capacity community cisterns in this area would assist in fire attack operations. Wildfire/brush trucks are required for backup and for back country fireground access.

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Indian Paintbrush (19)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area has approximately 20 large, relatively modern, estate-type homes and a church.

WATER SUPPLIES

The area is served by adequate hydrants.

North Rilliet Park, North Hess Ave, and Lookout Mt. Crest. (20)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area has approximately 90 homes on narrow, winding gravel roads.

WATER SUPPLIES

While a water shuttle may be needed for a major structure fire, this area does have hydrants which are fed by a four inch main. Two of the hydrants have City of Denver threads instead of the District's standard NH threads. A hydrant on a six inch main is located at the intersection of Hess and Colorow. Most have two small outlets with square valve stem nuts on top. Small wildland engine support may be needed due to heavy tree growth. Water tenders may need to support any extended suppression activity at the further reaches of the neighborhood.

Upper Lookout Mt. Road, Paradise Hills, and Genesee Point (21)

This area has approximately 170 relatively modern homes with adequate access throughout.

WATER SUPPLIES

There are adequate hydrants served by large water mains

Colorow Loop and the Jefferson County Nature Center (22)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area has approximately 30 homes, the Boetcher Mansion and the Jefferson County Nature Center. Home construction is generally modern with modern materials however there are a few older homes with heavy timber and stone construction.

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WATER SUPPLIES

A hydrant is located at Colorow and Hess as well as at the Boetcher Mansion and LDH could serve much of the area. However, a water shuttle may be needed for some portions of Colorow. Brush/wildfire trucks are needed as area has heavy timber.

Buffalo Bill's Grave (23)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area is owned by the City and County of Denver. There is a commercial building housing a curio shop and snack bar with several apartments in it and a museum building. Concern existy as to the suitability of the commercial building to house overnight occupants as the building is not adequately alarmed or spinklered and egress requirements are not met for such a use. Access is usually adequate.

WATER SUPPLIES

The entire complex has an adequate hydrants served by a large diameter main.

Tower Hill (24)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area has approximately 35 homes of varying construction type. Roads are sometimes narrow and steep causing some concern over access.

There are multiple transmitting towers in the area which appear to have minimal commercial risk as they are not generally occupied and access is usually restricted from the public. Many of these tower complexes have sophisticated fire control systems. The towers do present a couple of special circumstances to responding units. Namely that they typically contain very high voltage equipment including large battery and generator backup facilities. Because of this suppression operations will typically be of a defensive nature rather than a direct attack. Also, the transmitting towers themselves present a need for specialized training in tower rescue to provide for the safe evacuation of injured tower workers, trespassing public, and potentially a hang glider or parasailer from nearby Mount Zion whom becomes intangled in the tower or it's guywires.

WATER SUPPLIES

The area has reachable hydrants for the most part. This will be enhanced when the proposed extension of the water line to the end of the hill from Lookout Mountain Road is finished along with it's associated hydrants.

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Panorama Heights, Park View, and Sky Meadow (25)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

There are approximately 140 homes in this area ranging in construction materials and techniques through the entire development period of the area.

WATER SUPPLIES

We may be able to draft out of several ponds for water. There are a few hydrants in this area, and the neighborhood has a pond with a dry hydrant but a water shuttle may be necessary for some occupancies. A large capacity community cistern on Parkview and one on Sky Meadow would help provide needed water supplies.

Wayne's Way (26)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

Wayne's Way is a narrow but paved road circling the development which serves numerous expensive residential structures that have been constructed in the past thirty or so years. Large trucks may be able to maneuver close to some residences, but the street will have to be established as one-way during emergency operations.

WATER SUPPLIES

Water will be available from Genesee hydrants to some of the properties but an alternative water source needs to be established for the residences on the far end of the loop. A water shuttle may also be needed for the most remote properties.

Snowberry, Brookcress, Meadow Rose, Morning Rose, Copper Rose, Genesee Hill Trail, and Montane Drive (27)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

The Snowberry area is north of the Genesee Fire station. The Brookcress area is East of the Genesee Station. The other areas are East of the Genesee Fire station. Large residential units to the north have poor access with narrow roads that dead end. In winter the north facing slopes cause severe ice and snow accumulations making access difficult. Severe congestion caused by inadequate access limits attack possibilities to the more remote homes.

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WATER SUPPLIES

There are some hydrants in the area, but a water shuttle would be required for the more distant residences.

Shingle Creek Road (28)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

There are approximately 20 homes in this area ranging in construction materials and techniques through the entire development period of the area. The road can be extremely rough in places allowing for 4-wheel drive access only at times. Support from 4-wheel drive brush trucks may be necessary for initial and long term operations in certain areas.

WATER SUPPLIES

The West end of Shingle Creek can be accessed by Genesee hydrants. The East end can be covered by Forest Hills hydrants. A water shuttle would probably be required in the central area, although a long hose lay might reach.

Grapevine North to top of Grapevine (29)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

There are residences in this area that date back to the initial ranching settlement of this area. In recent years there has been infill of very large estate size homes and a few smaller private residences. Access is generally adequate with a few residences presenting some restrictions to access due to poor driveway surfacing, steep grades, and narrow driveways.

WATER SUPPLIES

There is a Forest Hills hydrant at Forest Hills Drive, but all other portions of this area will require a Water Shuttle. The creek flows are adequate for drafting during certain times of certain years.

Mid-Grapevine, Sunshine Hills, Sawmill Gulch, and Lower Grapevine to the forks in Idledale and Mount Morrison (30)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

There are approximately 60 homes in this area ranging in construction materials and techniques throughout the entire development period of the area. The Mount Morrison area will be limited to access by four wheel drive trucks supplied by the Idledale

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hydrants at the entrance off the Grapevine. No current water supply exists past the hydrant at the forks. Two large buildings provide transmission facilities for radio and TV. A Sprint cell site is in place below the top of the mountain.

WATER SUPPLIES

This area will require a water shuttle from the Forest Hills hydrant at Grapevine and Forest Hills Drive or the Idledale Hydrant at the fork of the Grapevine road to SE and SW Grapevine. Sunshine Hills has two cisterns which are adequate and there is a water storage facility at the bottom of the hill, but it does not have adequate access for drafting. A hydrant off of the Idledale Water System located at the Sawmill Gulch intersection would greatly improve water delivery to the middle portion of this area..

Matthew Winters Park and Red Rocks Park (31)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

There is a small historic residential enclave of approximately 5 houses to the immediate west of the Matthew Winters Park Trailhead parking area. These homes date back to the very earliest permanent settlements of the county. These historic homes may pose significant suppression issues due to construction techniques and in some cases access by adequate apparatus.

WATER SUPPLIES

The area West of Highway 26 will require a water shuttle. The nearest water source is the private cistern at the Conoco on Highway 40 or the City of Golden Hydrant near Golden Station 4.

Foothills Fire & Rescue also covers the Western portion of Red Rocks Park including the Ampitheater, museum, and restaurant. In this area, fire water is available only to the area immediately surrounding the Ampitheater served by a 700,000 gallon underground cistern and a large fire pump located in the Upper North Parking Lot. A water shuttle will be needed except in the area directly around the Ampitheater.

Bear Creek Canyon West of Idledale And The Genesee Water Plant (32)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

While the area is mostly undeveloped, there are a few houses along this stretch of road and the potential for car fires and other road and rescue related emergencies exist.

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WATER SUPPLIES

This area can be served by drafting from Bear Creek, Idledale hydrants, and water shuttles. The Genesee Water Plant would benefit from a hydrant as it is a large commercial facility.

Cold Springs - South Side (33)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area is West of the Water Plant and North of Highway 74. Approximately 5 large homes of fairly recent construction types and materials exist in our District. Additional development may occur. A four wheel drive road gives access all the way to in Genesee. This important roadway gives us the ability to protect a large area from wildfire danger.

WATER SUPPLIES

Access to a hydrant at the Water Plant would be beneficial to the entire area. A water shuttle and drafting from the pond at the location of one of the homes may be required. Installation of a dry hydrant at the pond should be encouraged as well as adequate access to the pond.

Beaverbrook Trail (34)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This area is mostly wooded with some residences nearby with relatively limited access, older construction types and materials, and little or no fire mitigation.

WATER SUPPLIES

Most fires will need to be fought using hand teams supplemented in some areas by brush trucks, water shuttles, Mount Vernon Hydrants and Lookout Mountain Water District hydrants.

Cabrini Shrine (35)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

This is a commercial area with exposure risks due to the living units and shrine facilities. It is served by a paved road but the road is fairly steep and has tight curves.

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WATER SUPPLIES

A cistern or hydrant for fire department use should be provided.

I-70 (36)

STRUCTURE CONSTRUCTION AND ACCESS CONCERNS

There are no significant structures in this area other than support facilities for the Interstate. Generally larger trucks are used on the Interstate owing to the fact that they offer better lighting and visibility.

WATER SUPPLIES

Foothills covers this road from milepost 259 West to milepost 251. In general no water is readily available although hydrants are near several highway access points. Water needs are generally supplied by tanks on the first in trucks. For large car fires water tenders may be needed to supplement water flow to the first in engine.