

The Town of Dover Community Wildfire Protection Plan



AN ACTION PLAN FOR WILDFIRE MITIGATION

DATE: 2011

Prepared by: Cecil Michael, Vicki Eggers
Organization: Northern Oklahoma Development Authority
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FAX 580-237-8230

The following report is a cooperative effort between various entities. The representatives listed below comprise the core decision-making team responsible for this report and mutually agree on the plan's contents.

Community Representative(s):

Name Amy Friday
Address PO Box 216, Dover, OK
Phone Number 405-828-4212
Other Contact
Information okdovercc@pldi.net

Name Trevor Leffingwell
Address 208 E. Elm, Dover, OK 73734
Phone Number 405-368-3268
Other Contact
Information tleffingwell@ft.newyorklife.com

Local Fire Department Representative(s):

Name Bobby Gardner
Address Rt. 1, Box 72BG, Dover, OK
Phone Number 405-368-6583
Other Contact
Information

Name Jeff Johnson
Address Rt. 1, Box 151 JJ, Dover, OK 73734
Phone Number 405-368-4091
Other Contact
Information

Local Oklahoma Division of Forestry Representative(s):

Name Dan Stidham, Area Forester
Address 2901 N. Van Buren, Enid, OK 73703
Phone Number 405-237-4810
Other Contact
Information dan.stidham@oda.state.ok.us

Name Brian Hall, Staff Forester
Address ODAFF 2800 N. Lincoln Blvd., Oklahoma City, OK 73105
Phone Number 405-522-8889
Other Contact
Information brian.hall@oda.state.ok.us

The following federal and other interested parties were consulted and involved in the preparation of this report.

<u>Name</u>	<u>Organization</u>
Ray Shimanek	Kingfisher County Commissioner, District 2
Vicki Eggers	NODA
Cecil Michael	NODA Rural Fire Coordinator

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1) COMMUNITY BACKGROUND AND EXISTING SITUATION

Community Description:

County: Kingfisher Latitude/Longitude: 35°58'53"N
97°
54'40"W

Frontage Road: Highway 81 Nearest Intersection: Red Fork &
Hwy 81

Nearest Fire Department (name/location): Dover

Interface Areas: _____ Year Established: 1950

Map #: N/A

Community Size:

Number of Lots: 185 Number of Structures: 195

Estimated Acres: 144 square miles Development Status: Active

Community Infrastructure:

Home Owners Association/Organization: Yes No *If yes, attach a copy of ordinances.*

Resident Population:

Full Time

Part-Time: 100-75% 75-50% 50-25% less than 25%

Wildfire Hazard Rating: (check one)

Low Moderate High Extreme

Date Evaluated: Fall 2010 *Attach Community Assessment Form.*

Community Assessment Highlights (roads, water sources, primary fuel types, utilities and topography)

With assistance from ODAFF representatives and the Dover FireWise Board, Northern Oklahoma Development Authority (NODA) completed a Community Wildfire Risk Assessment in the fall of 2010.

Dover is a town in Kingfisher County, Oklahoma, with a population of 367 at the 2000 census.

Around 1861 Colonel William H Emory arrived at what is now Dover which was on the 'Indian Frontier'. His job was to protect the cattle drovers and to help them, and, no doubt to provide a lucrative income for himself, he set up a staging post with a stockade for cattle and named it Red Fork, so named because of the color of the soil and the fact that the cattle and the stage coach trails went in different directions.

In 1890 Kingfisher County was created and with the help of the railway cereal growing, as well as cotton, became the mainstay of the economy.

On Sept. 18, 1906, the northbound train from Fort Worth, Texas to Caldwell, Kansas was crossing the Cimarron River outside of Dover. At the time there was heavy rain and the river was in flood, and as the train crossed the bridge, it was swept away. All but the last four coaches plunged in. The reports of the number dead were, and still are, wildly exaggerated. In reality four people died although a child died later of pneumonia following exposure, while a porter's body was found six months later several miles downstream.

At the beginning of the twentieth century, Dover, like the rest of Oklahoma, became the breadbasket of the US and at one point boasted of an opera house. But the inter-war period saw most of Oklahoma devastated by over-farming, drought, tornadoes and crop failures; a situation immortalized in John Steinbeck's 'The Grapes of Wrath.' It was at this time that the Dover bank was subject to a 'Bonnie and Clyde' style machine-gun robbery. Both officials and customers were locked in the vault but no one was hurt.

Today Dover, is a quiet town surrounded by rich, fertile farmland with the highest wheat production in the country. Other cereal crops include barley, corn, alfalfa, hay, rye, sorghum and soybeans. Livestock includes beef and milk cows, and sheep. In the late 1950s oil was discovered nearby and is still extracted.

Several sand-dredging pits are in the area due to the close proximity of the sandy and ever-shifting Cimarron River. There are also two small lakes south of Dover that could be possible water sources if necessary (in Assessment Area #3).

In Assessment Area 1, a construction company on the southeast edge of town has major tree and brush overgrowth within and among old abandoned equipment, tires, etc. Although as a fire hazard the main threat is to the company and only a few homes in the community, the loss of this company could have a much larger impact financially on a small community with limited businesses for employment, tax base, etc.

Assessment Area 2 has the railroad track and north of Redfork Dr. there are tall and overhanging trees with a field of bermuda grass on the west side of track that is a potential wildfire hazard during dormancy.

Assessment Area 3 consists of the Turner and Vincent Lakes area. While the landscaping around the homes are visually attractive, the dense tree and brush surroundings put the homes at a disadvantage, especially with the limited road access for fire apparatus and residential egress.

Each assessment area has some homes with overgrowth of grasses and shrubs that need to be better maintained.

Community Wildfire History: (include surrounding areas)

Relative Frequency: 30 grass fires per year

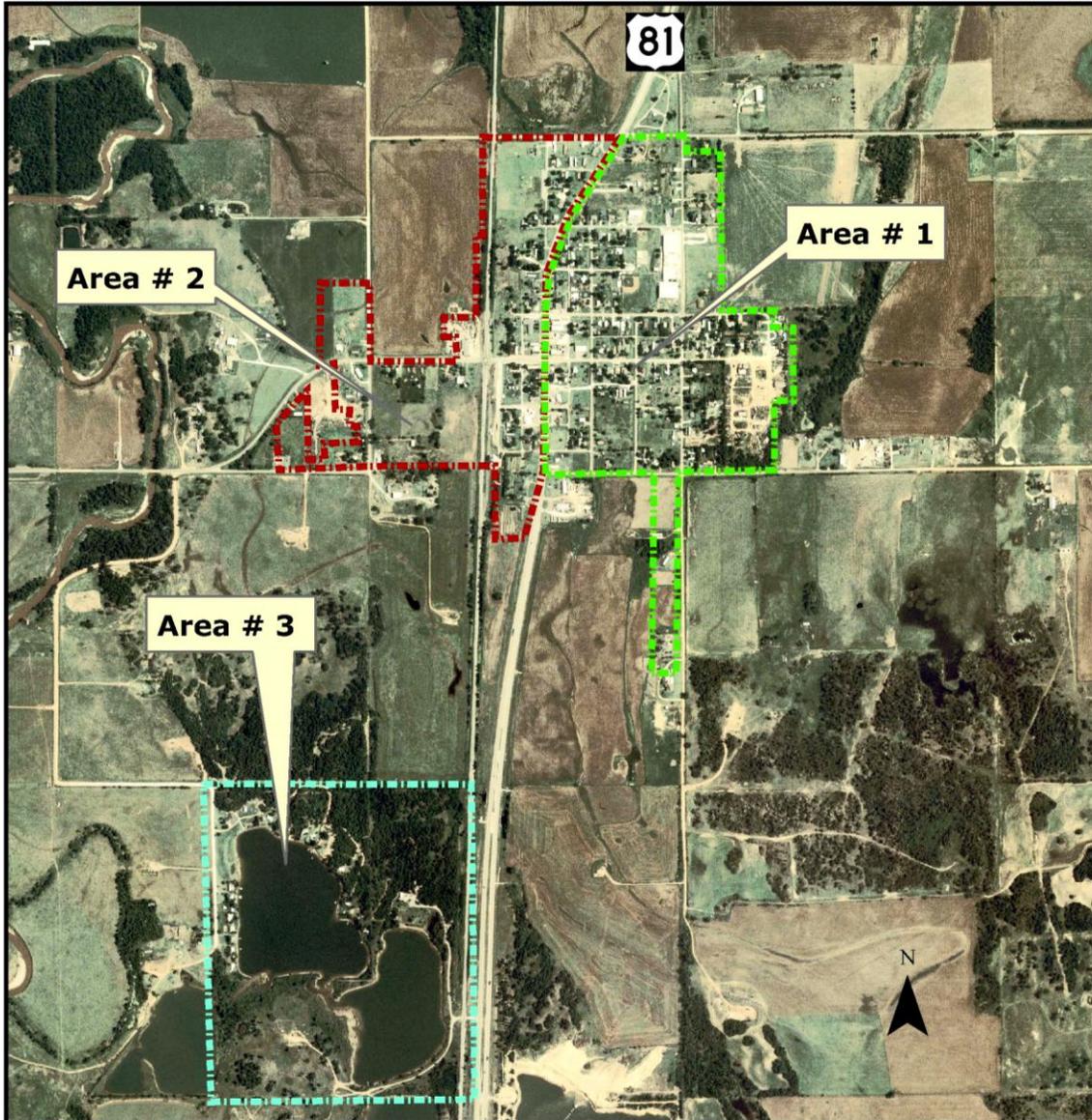
Common Causes: Human error, stupidity

Areas of Future Concern: Any area grown up in grass and trash



2) COMMUNITY BASE MAP AND OTHER VISUALS

Hazard Assessment Areas



Dover Fire Assessment Areas

3) OBJECTIVES / GOALS

Objectives:

The objective of this plan is to set clear priorities for the implementation of wildfire mitigation in the Dover Fire District henceforth referred to as Dover. This includes prioritized recommendations for the community as a whole and also for individual homeowners where appropriate.

Goals:

1. Public awareness and education about FireWise landscapes.
2. Identification and reduction of areas with an increased level of risk due to excessive vegetation or debris. Facilitate removal utilizing roll-off dumpsters, chipper/shredder, chainsaws, etc.
3. Improve accessibility, ingress and egress for emergency vehicles, and to allow better egress in event of evacuation from properties with limited access.
4. Increase/improve frequency and accuracy of street markers and 911 addressing.
5. Annual evaluation of plan to monitor success and set new goals or address new problems.
6. Improve communications capabilities for emergency services.
7. Utilize four wheeler for access to isolated areas (including along river) for fuel reduction and suppression activities.



4) PRIORITIZED MITIGATION RECOMMENDATIONS

The following recommendations were developed by the Dover FireWise Board as a result of the community wildfire risk assessment and follow-up meetings with local, state, federal and community stakeholders. A priority order was determined based on which mitigation projects would best reduce the hazard of wildfire and increase resident safety in the assessment area.

Proposed Community Hazard Reduction Priorities:

List area and treatment recommended.

1. Farrar Construction: Trim and cut trees (owner is doing this).
2. Railroad Right of Way: Tree and brush trimming and clearing.
3. East of Taylor Street: Tree and brush trimming and clearing, debris removal.
4. 1 mile north of Dover, 2 1/2 east, north side of road: Tree and brush trimming and clearing, debris removal.



Proposed Structural Ignitability Reduction Priorities:

Actions to be taken by homeowners.

Example: Clean roofs and gutters.

1. Clear brush and debris from property.
2. Clean roofs and gutters.
3. Keep property mowed.

Proposed Education and Outreach Priorities:

Activities planned and implemented by community, local fire department and Department of Forestry

1. Engage community by making available FireWise informational and educational material available at school and businesses.
2. Sponsor/support annual clean up days.
3. Incorporate FireWise education into Fire Prevention Week.
4. Advertise and promote FireWise day in area papers, radio and community bulletin boards.
5. Invite ODAFF area forester to speak to local civic groups concerning FireWise.
6. Promote FireWise education through utility billing mailouts.
7. Promote FireWise education at school events.
8. Fire department to provide free individual home FireWise assessments.

5) ACTION PLAN

Funding Needs:

Outline each project (list highest priority projects first) including estimated cost and potential funding sources.

1. To increase public awareness and encourage citizens to participate in community projects, educational articles should be created by the FireWise board and be run in area newspapers and posted in prominent places throughout. No funds anticipated.
2. Distribute FireWise Brochures supplied by Oklahoma Forestry, no funds needed.
3. Invite area forester to speak and distribute FireWise Brochures at upcoming school events. FireWise Brochures supplied by Oklahoma Forestry, no funds needed.
4. FireWise booth incorporated into annual fundraiser. Funds needed for posters, displays, etc.
5. Host a FireWise booth at school carnival the end of October. No funds anticipated.
6. Fire Danger sign and burn ban rider sign. Estimate \$1,300 per set, 2 sets needed. County fire departments project utilizing county fire tax funds.
7. Update radios/radio communications. Estimate \$5,000. ODAFF Hazard mitigation grant, REAP grant, local match, county fire tax funds.
8. Purchase four-wheeler. Estimate \$7-10,000. ODAFF Hazard mitigation

grant, REAP grant, local match.

9. Purchase chipper-shredder. Estimate \$10-15,000. ODAFF Hazard mitigation grant, REAP grant, local match.

Timetables:

For each project (list highest priority projects first), provide an estimated duration, start date and targeted completion date.

1. Newspaper articles and community postings to begin in October.
 - Should include information pertaining to FireWise education, contacts and upcoming events.
 - Run monthly, if possible, but especially during Spring Clean-up.
2. FireWise promotional booth and FireWise Day at Kingfisher County Fair in August.
3. FireWise presentations and brochure distribution to begin in June and repeated as possible.
4. FireWise booth at annual fire department fundraiser in October.
5. FireWise booth at annual school carnival in October.



Assessment:

Describe the strategy used to assess the plans progress and effectiveness.

1. FireWise board to monitor number of articles published, and apparent improvement of any affected properties.
2. Fire Chief to ensure delivery of brochures and report to FireWise board on feed back.
3. Evaluate response at presentations and proactively respond to questions and requests.
4. Review participation in clean up days and evaluate effectiveness as related to FireWise parameters of properties.

6) WILDFIRE PRE-SUPPRESSION PLAN

A. Wildfire Protection Responsibility

Structural Protection: Dover Volunteer Fire Department

Wildland Protection: Dover Volunteer Fire Department, Kingfisher, Logan and Canadian County task force teams.

B. Incident Command Post Location

Dover Volunteer Fire Department or mobilized depending on incident.

C. Incident Staging Area Location

Dover Volunteer Fire Department, Dover, OK

D. Medical Unit Staging Area Location

Dover Volunteer Fire Department, Dover, OK

E. Alarm Response

First Alarm

<u>Fire Department/Rescue Squad</u>	<u>Travel Distance</u>	<u>Response Time</u>
Dover Fire Department	0	5-10 minutes

Second Alarm (report to designated staging area)

<u>Fire Department/Rescue Squad</u>	<u>Travel Distance</u>	<u>Response Time</u>
Kingfisher FD	9 miles	10 minutes
Hennessey FD	9 miles	15 minutes
Loyal FD	12 miles	20 minutes

F. Air Support

Fixed Wing

Aircraft	Contact Name	Dispatching Guidelines
ODAFF	Mark Goeller	Contact local Emergency Manager

Helicopter

Aircraft	Contact Name	Dispatching Guidelines
ODAFF	Mark Goeller	Contact Local Emergency Manager

G. Water Availability (must be accessible to fire engines)

Location: Town	Description: Hydrants
Location: By railroad tracks south of Redfork Dr.	Description: 4" water line

Location: Turner and
Vincent Lakes

Description: Draft

H. Communications (Attach Communications Plan if available)

<u>Name</u>	<u>Phone Number</u>	<u>Radio Frequencies</u>
Dispatch/Fire Departments		
911 System	911	
Dover Emergency	405-828-4311	
Local Department of Forestry Office		
Dan Stidham	405-237-4810	State Fire 154.130

I. Evacuation (Attach Evacuation Plan)

Due to the limited amount of area of the community, evacuation routes are to be considered county blacktop east and west and State Highway 81 north and south.

J. Resource List

<u>Name</u>	<u>Contact Information</u>
Support Agencies	
NODA Rural Fire Coordinator	Cecil Michael 580-237-4810
Kingfisher County Sheriff	Dennis Banther 405-375-4242
King. Co. Dist. 2 Kingfisher EMS	Ray Shimanek, 405-853-1299 Non-emergency 405-375-4070; Emergency 911
Life EMS, Hennessey	Non-emergency 405-853-6646; Emergency 911

Tractor Operators

Ray Shimanek -
Kingfisher Co. Dist.2
1-405-853-1299

Crews

Ray Shimanek -
Kingfisher Co. Dist.2
1-405-853-1299

<u>Name</u>	<u>Contact Information</u>	<u>Payment Information</u>
Utilities		
OG&E	1-800-272-9741	
Cimarron Electric	1-405-375-4121	
ONG	1-800-458-4251	

Fuel

81 Express 1-405-828-4660 Charge

Food and Supplies

Red Cross, Central
Okla. Chapter, 601
NE 6th Street, 1-405-228-9500
Oklahoma City, OK

Dover Market 405-828-4400 Cash

Wal-Mart,
Kingfisher 1-405-375-5743 Cash

Lodging

Payless Inn,
Kingfisher 1-405-375-9000 Cash

Cattleman's Inn,
Kingfisher 1-405-375-3181 Cash

Courtesy Inn,
Hennessey 1-405-853-6232 Cash

7) ATTACHMENTS (List here in order of attachment)

Wildfire Hazard Rating Explanation

Assessment Area 1

Assessment Area 2

Assessment Area 3

OKLAHOMA FORESTRY DIVISION
COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT

What does the Wildfire Hazard Rating mean?

Using the Wildfire Hazard Assessment, the highest possible rating is 247 points.

Communities can be divided into the following four risk categories:

Low Risk:

Total Wildfire Risk Rating is 0 – 90 points

The chances of a majority of homes in the community surviving a wildfire are GOOD. Little is needed to improve the community. Keep up the good work.

Moderate Risk:

Total Wildfire Risk Rating is 91 – 155 points

The chances of a majority of homes in the community surviving a wildfire are FAIR. Some minor improvements will make the community more fire resistant. Check the areas on the form in which you scored poorly.

High Risk:

Total Wildfire Risk Rating is Over 155 points

The chances of a majority of homes in the community surviving a wildfire are **NOT GOOD**. Some improvements in structure and site are necessary.

Extreme Risk:

Total Wildfire Risk Rating is Over 170 points

The community **MAY NOT SURVIVE** if a wildfire passes through the area. Take a serious look at your community and make improvements. If you don't, you may be facing disaster. You will find that even small changes could make the difference.

HAZARD is defined as the potential fire behavior based on physical fuel characteristics.

Risk is defined as the probability of fire occurrence determined by the number, presence and activity of potential ignition sources.

**OKLAHOMA FORESTRY DIVISION
COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT**

Dover Assessment Area 1
East of Hwy 81 to City Limits (east, north & south)

Community: Dover
Latitude: 35° 58' 51.63"N
Fire Department: Dover
Date: 2010
Acres: Lots: Homes: Future Homes:
Business and Industrial Area:

Forestry Office: Enid
County: Kingfisher
Longitude: 97° 21' 34.18"W

CALCULATING THE WILDFIRE HAZARD RATING

SUBDIVISION DESIGN HAZARD RATING	+ SITE HAZARD RATING	+ BUILDING CONSTRUCTION HAZARD RATING	+ ADDITIONAL FACTOR HAZARD RATING	= OVERALL WILDFIRE HAZARD RATING
2	16	5	20	43

SUBDIVISION DESIGN RATING	Rating	
ACCESS		
Two or more roads	0	0
One road, plus alternative	3	
One road in/out	7	
SUBDIVISION BRIDGES		
No bridges or bridges with no weight and or width restrictions	0	0
Low weight or narrow bridges restricting emergency access	5	
PRIMARY ROAD WIDTHS		
>24 ft	0	2
>20 ft and <24 ft	2	
<20 ft	4	
ACCESSIBILITY		
Surfaced road, grade <5%	0	0
Surfaced road, grade >5%	2	
Non-surfaced road, grade <5%	2	
Non-surfaced road, grade >5%	5	
Other than all-season road	7	
SECONDARY ROAD TERMINUS		
<300 ft with turnaround	0	0
>300 ft with turnaround	2	
<300 ft without turnaround	4	
>300 ft without turnaround	5	
UNSAFE ROADWAY		
No flammable vegetation threat	0	0
Highly flammable vegetation along road	5	
STREET SIGNS		
Present 4 inches in size and reflective	0	0
Not present	5	
TOTAL SUBDIVISION DESIGN		2

OKLAHOMA FORESTRY DIVISION
COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT

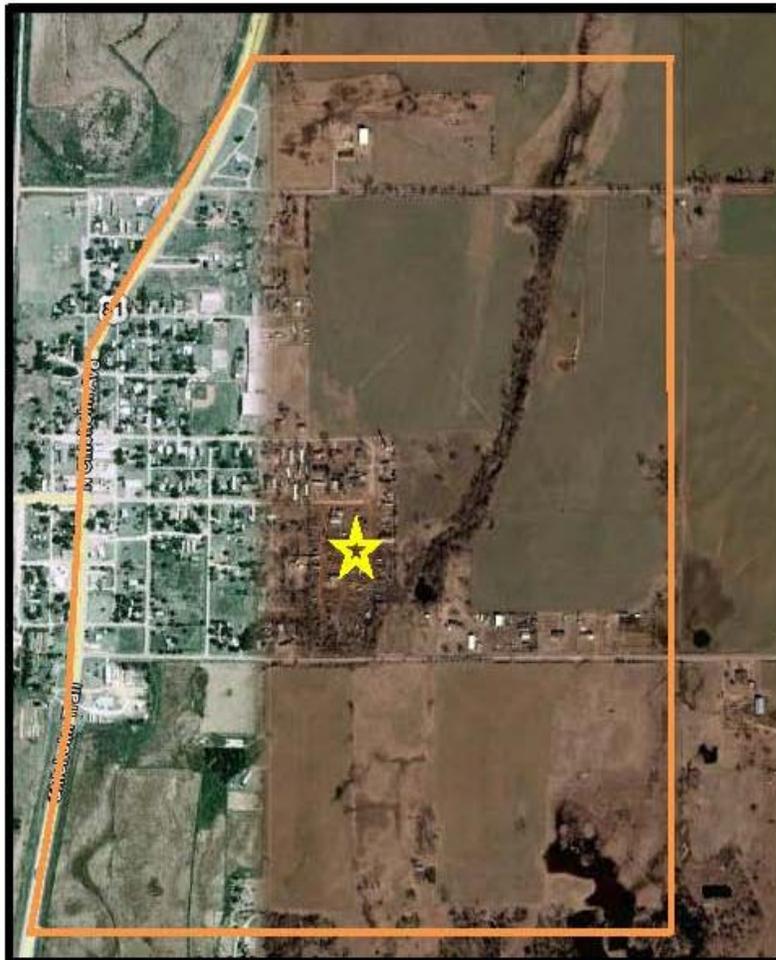
SITE HAZARD RATING: (within 30 feet of structure based on a majority of the properties in the community)	Rating	
DRIVEWAY CHARACTERISTICS		
Less than 150 ft long	0	0
More than 150 ft long with minimum 45 ft outside radius turnaround	3	
More than 150 ft with inadequate turnaround	5	
Average driveway width more than 12 ft	0	0
Average driveway width less than 12 ft	5	
No obstructing overhead branches below 15 ft	0	0
Obstructing overhead branches below 15 ft	5	
No bridges or bridges with no weight and or width restrictions	0	0
Bridges restricting emergency vehicle access	5	
Slopes level or less than 10%	0	0
Slopes over 10%	5	
No gate/non-locking gate	0	0
Locked gate	5	
Address clearly visible from road	0	0
Address not clearly visible from road	5	
DOMINANT TREES (within 100 ft of homes)		
Deciduous	1	1
Mixed	5	
Evergreen	10	
LADDER FUELS		
Evergreen branches pruned up at least 6 ft	0	0
Evergreen branches close to ground	5	
VEGETATION (predominant type throughout community)		
Light (e.g. grasses and forbs) NFDRS Fuels Models A, C, L, N, S and T	5	5
Medium (e.g. light brush and small trees) NFDRS Fuels Models D, E, F, H, P, Q and U	10	
Heavy (e.g. dense brush, timber and hardwoods) NFDRS Fuels Models B, G and O	20	
Slash (e.g. timber harvesting residue) NFDRS Fuel Models J,K and L	25	
SLOPE OF PROPERTY		
Flat (0-5%)	0	0
Moderate (6-20%)	2	
Steep (over 20%)	4	
DEFENSIBLE SPACE		
No trees, shrubs or tall grass within 30 ft	0	10
Well spaced trees and shrubs within 30 ft	10	
Touching crowns or tall grass within 30 ft	20	
No unthinned or unmanaged timber within 100 ft	0	0
Unthinned or unmanaged timber within 100 ft	5	
TOTAL SITE HAZARD RATING		16

OKLAHOMA FORESTRY DIVISION
COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT

BUILDING CONSTRUCTION HAZARD RATING	Rating	
ROOFING MATERIALS		
Greater than 75% of homes have metal, tile or Class A shingles	0	0
50 to 75% of homes have metal, tile or Class A shingles	10	
Less than 50% of homes have metal, tile or Class A shingles	15	
SIDING / SOFFETS		
Greater than 75% of homes have fire resistant siding and soffets	0	5
50 to 75% of homes have fire resistant siding and soffets	5	
Less than 50% of homes have fire resistant siding and soffets	10	
UNDERSKIRTING		
Greater than 75% of homes have equivalent of fine mesh screening underneath	0	0
50 to 75% of homes have equivalent of fine mesh screening underneath	5	
Less than 50% of homes have equivalent of fine mesh screening underneath	10	
TOTAL BUILDING CONSTRUCTION HAZARD RATING		5

ADDITIONAL HAZARD FACTORS	Rating	
FIRE CONTROL WATER SUPPLY		
Pressurized hydrants with minimum 500 gpm < 1,000 ft apart	0	2
Pressurized hydrants with <500 gpm or spaced > 1,000 ft apart	2	
Dry hydrant(s) available year round within the community	2	
Other accessible sources within community	5	
Water sources located within 4 road miles of community	7	
No water sources within 4 road miles of community	15	
UTILITIES		
Both underground	0	3
One underground, one above ground	3	
Both above ground	5	
SURROUNDING ENVIRONMENT		
Community is not surrounded by any large natural landscapes	0	5
Large natural landscape adjoins one side of the community	5	
Large natural landscape adjoins two sides of the community	10	
Large natural landscape adjoins three sides of the community	15	
Community is completely surrounded by natural landscape	20	
UNDEVELOPED LOTS		
Less than 10% of lots have not been developed and pose no additional wildfire hazard due to lack of maintenance	0	0
10 to 50% of lots have not been developed	3	
51 to 75% of lots have not been developed	5	
Greater than 75% of lots have not been developed	10	
RISK LOCATION		
Community is located within the following designated Wildfire Risk Areas according to the Southern Wildfire Risk Assessment		
Low	0	10
Medium	10	
High	20	
TOTAL ADDITIONAL HAZARD FACTORS		20

OKLAHOMA FORESTRY DIVISION
COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT



Notes: A construction company on southeast edge of town has major tree and brush overgrowth within and among old abandoned equipment, tires, etc. As the major employer in town, this creates a hazard not only to a limited amount of surrounding homes but also a potential loss of revenue and employment.

Some homes with overgrowth of grasses, shrubs and trees that need to be better maintained.

This form may be used to evaluate your community to determine the level of wildfire risk. It covers roughly one-half of the hazards normally taken into account in calculating fire risk, but does provide an approximate indication of true risk. For more information on your home's fire risk, or for more complete evaluation of your property, contact your local Oklahoma Department of Agriculture, Food and Forestry, Forestry Services office.

**OKLAHOMA FORESTRY DIVISION
COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT**

Dover Assessment Area 2
West of Hwy 81 to City Limits (west, north & south)

Community: Dover
 Latitude: 35° 58' 51.87"N
 Fire Department: Dover
 Date: 2010
 Acres: Lots: Homes: Future Homes:
 Business and Industrial Area:

Forestry Office: Enid
 County: Kingfisher
 Longitude: 97° 54' 51.30"W

CALCULATING THE WILDFIRE HAZARD RATING

SUBDIVISION DESIGN HAZARD RATING	+ SITE HAZARD RATING	+ BUILDING CONSTRUCTION HAZARD RATING	+ ADDITIONAL FACTOR HAZARD RATING	= OVERALL WILDFIRE HAZARD RATING
2	16	5	20	43

SUBDIVISION DESIGN RATING	Rating	
ACCESS		
Two or more roads	0	0
One road, plus alternative	3	
One road in/out	7	
SUBDIVISION BRIDGES		
No bridges or bridges with no weight and or width restrictions	0	0
Low weight or narrow bridges restricting emergency access	5	
PRIMARY ROAD WIDTHS		
>24 ft	0	2
>20 ft and <24 ft	2	
<20 ft	4	
ACCESSIBILITY		
Surfaced road, grade <5%	0	0
Surfaced road, grade >5%	2	
Non-surfaced road, grade <5%	2	
Non-surfaced road, grade >5%	5	
Other than all-season road	7	
SECONDARY ROAD TERMINUS		
<300 ft with turnaround	0	0
>300 ft with turnaround	2	
<300 ft without turnaround	4	
>300 ft without turnaround	5	
UNSAFE ROADWAY		
No flammable vegetation threat	0	0
Highly flammable vegetation along road	5	
STREET SIGNS		
Present 4 inches in size and reflective	0	0
Not present	5	
TOTAL SUBDIVISION DESIGN		2

OKLAHOMA FORESTRY DIVISION
COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT

SITE HAZARD RATING: (within 30 feet of structure based on a majority of the properties in the community)	Rating	
DRIVEWAY CHARACTERISTICS		
Less than 150 ft long	0	0
More than 150 ft long with minimum 45 ft outside radius turnaround	3	
More than 150 ft with inadequate turnaround	5	
Average driveway width more than 12 ft	0	0
Average driveway width less than 12 ft	5	
No obstructing overhead branches below 15 ft	0	0
Obstructing overhead branches below 15 ft	5	
No bridges or bridges with no weight and or width restrictions	0	0
Bridges restricting emergency vehicle access	5	
Slopes level or less than 10%	0	0
Slopes over 10%	5	
No gate/non-locking gate	0	0
Locked gate	5	
Address clearly visible from road	0	0
Address not clearly visible from road	5	
DOMINANT TREES (within 100 ft of homes)		
Deciduous	1	1
Mixed	5	
Evergreen	10	
LADDER FUELS		
Evergreen branches pruned up at least 6 ft	0	0
Evergreen branches close to ground	5	
VEGETATION (predominant type throughout community)		
Light (e.g. grasses and forbs) NFDRS Fuels Models A, C, L, N, S and T	5	5
Medium (e.g. light brush and small trees) NFDRS Fuels Models D, E, F, H, P, Q and U	10	
Heavy (e.g. dense brush, timber and hardwoods) NFDRS Fuels Models B, G and O	20	
Slash (e.g. timber harvesting residue) NFDRS Fuel Models J,K and L	25	
SLOPE OF PROPERTY		
Flat (0-5%)	0	0
Moderate (6-20%)	2	
Steep (over 20%)	4	
DEFENSIBLE SPACE		
No trees, shrubs or tall grass within 30 ft	0	10
Well spaced trees and shrubs within 30 ft	10	
Touching crowns or tall grass within 30 ft	20	
No unthinned or unmanaged timber within 100 ft	0	0
Unthinned or unmanaged timber within 100 ft	5	
TOTAL SITE HAZARD RATING		16

OKLAHOMA FORESTRY DIVISION
COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT

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Greater than 75% of homes have fire resistant siding and soffets	0	5	
50 to 75% of homes have fire resistant siding and soffets	5		
Less than 50% of homes have fire resistant siding and soffets	10		
UNDERSKIRTING			
Greater than 75% of homes have equivalent of fine mesh screening underneath	0	0	
50 to 75% of homes have equivalent of fine mesh screening underneath	5		
Less than 50% of homes have equivalent of fine mesh screening underneath	10		
TOTAL BUILDING CONSTRUCTION HAZARD RATING		5	

ADDITIONAL HAZARD FACTORS		Rating	
FIRE CONTROL WATER SUPPLY			
Pressurized hydrants with minimum 500 gpm < 1,000 ft apart	0	2	
Pressurized hydrants with <500 gpm or spaced > 1,000 ft apart	2		
Dry hydrant(s) available year round within the community	2		
Other accessible sources within community	5		
Water sources located within 4 road miles of community	7		
No water sources within 4 road miles of community	15		
UTILITIES			
Both underground	0	3	
One underground, one above ground	3		
Both above ground	5		
SURROUNDING ENVIRONMENT			
Community is not surrounded by any large natural landscapes	0	5	
Large natural landscape adjoins one side of the community	5		
Large natural landscape adjoins two sides of the community	10		
Large natural landscape adjoins three sides of the community	15		
Community is completely surrounded by natural landscape	20		
UNDEVELOPED LOTS			
Less than 10% of lots have not been developed and pose no additional wildfire hazard due to lack of maintenance	0	0	
10 to 50% of lots have not been developed	3		
51 to 75% of lots have not been developed	5		
Greater than 75% of lots have not been developed	10		
RISK LOCATION			
Community is located within the following designated Wildfire Risk Areas according to the Southern Wildfire Risk Assessment			
Low	0	10	
Medium	10		
High	20		
TOTAL ADDITIONAL HAZARD FACTORS		20	

OKLAHOMA FORESTRY DIVISION
COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT



Notes: Railroad on west side of town presents some hazards due to some brush and overhanging trees. Extremely dry conditions and the potential for inherent hazards of the railroad combine to create a fire hazard on the east side of town in a south to north pattern that would be fueled by prevailing southerly winds.

Some homes with overgrowth of grasses, shrubs and trees that need to be better maintained.

This form may be used to evaluate your community to determine the level of wildfire risk. It covers roughly one-half of the hazards normally taken into account in calculating fire risk, but does provide an approximate indication of true risk. For more information on your home's fire risk, or for more complete evaluation of your property, contact your local Oklahoma Department of Agriculture, Food and Forestry, Forestry Services office.

**OKLAHOMA FORESTRY DIVISION
COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT**

Dover Assessment Area 3
Turner and Vincent Lakes (3/4 mile southwest of Dover)

Forestry Office: Enid

Community: Dover

County: Kingfisher

Latitude: 35° 58' 01.93"N

Longitude: 97° 55' 03.64"W

Fire Department: Dover

Date: 2010

Acres: Lots: Homes: Future Homes:

Business and Industrial Area: No

CALCULATING THE WILDFIRE HAZARD RATING

SUBDIVISION DESIGN HAZARD RATING	+ SITE HAZARD RATING	+ BUILDING CONSTRUCTION HAZARD RATING	+ ADDITIONAL FACTOR HAZARD RATING	= OVERALL WILDFIRE HAZARD RATING
22	80	5	35	142

SUBDIVISION DESIGN RATING	Rating	
ACCESS		
Two or more roads	0	3
One road, plus alternative	3	
One road in/out	7	
SUBDIVISION BRIDGES		
No bridges or bridges with no weight and or width restrictions	0	0
Low weight or narrow bridges restricting emergency access	5	
PRIMARY ROAD WIDTHS		
>24 ft	0	4
>20 ft and <24 ft	2	
<20 ft	4	
ACCESSIBILITY		
Surfaced road, grade <5%	0	5
Surfaced road, grade >5%	2	
Non-surfaced road, grade <5%	2	
Non-surfaced road, grade >5%	5	
Other than all-season road	7	
SECONDARY ROAD TERMINUS		
<300 ft with turnaround	0	0
>300 ft with turnaround	2	
<300 ft without turnaround	4	
>300 ft without turnaround	5	
UNSAFE ROADWAY		
No flammable vegetation threat	0	5
Highly flammable vegetation along road	5	
STREET SIGNS		
Present 4 inches in size and reflective	0	5
Not present	5	
TOTAL SUBDIVISION DESIGN		22

OKLAHOMA FORESTRY DIVISION
COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT

SITE HAZARD RATING: (within 30 feet of structure based on a majority of the properties in the community)	Rating	
DRIVEWAY CHARACTERISTICS		
Less than 150 ft long	0	3
More than 150 ft long with minimum 45 ft outside radius turnaround	3	
More than 150 ft with inadequate turnaround	5	
Average driveway width more than 12 ft	0	5
Average driveway width less than 12 ft	5	
No obstructing overhead branches below 15 ft	0	5
Obstructing overhead branches below 15 ft	5	
No bridges or bridges with no weight and or width restrictions	0	0
Bridges restricting emergency vehicle access	5	
Slopes level or less than 10%	0	5
Slopes over 10%	5	
No gate/non-locking gate	0	0
Locked gate	5	
Address clearly visible from road	0	5
Address not clearly visible from road	5	
DOMINANT TREES (within 100 ft of homes)		
Deciduous	1	5
Mixed	5	
Evergreen	10	
LADDER FUELS		
Evergreen branches pruned up at least 6 ft	0	5
Evergreen branches close to ground	5	
VEGETATION (predominant type throughout community)		
Light (e.g. grasses and forbs) NFDRS Fuels Models A, C, L, N, S and T	5	20
Medium (e.g. light brush and small trees) NFDRS Fuels Models D, E, F, H, P, Q and U	10	
Heavy (e.g. dense brush, timber and hardwoods) NFDRS Fuels Models B, G and O	20	
Slash (e.g. timber harvesting residue) NFDRS Fuel Models J,K and L	25	
SLOPE OF PROPERTY		
Flat (0-5%)	0	2
Moderate (6-20%)	2	
Steep (over 20%)	4	
DEFENSIBLE SPACE		
No trees, shrubs or tall grass within 30 ft	0	20
Well spaced trees and shrubs within 30 ft	10	
Touching crowns or tall grass within 30 ft	20	
No unthinned or unmanaged timber within 100 ft	0	5
Unthinned or unmanaged timber within 100 ft	5	
TOTAL SITE HAZARD RATING	80	

OKLAHOMA FORESTRY DIVISION
COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT

BUILDING CONSTRUCTION HAZARD RATING	Rating	
ROOFING MATERIALS		
Greater than 75% of homes have metal, tile or Class A shingles	0	0
50 to 75% of homes have metal, tile or Class A shingles	10	
Less than 50% of homes have metal, tile or Class A shingles	15	
SIDING / SOFFETS		
Greater than 75% of homes have fire resistant siding and soffets	0	0
50 to 75% of homes have fire resistant siding and soffets	5	
Less than 50% of homes have fire resistant siding and soffets	10	
UNDERSKIRTING		
Greater than 75% of homes have equivalent of fine mesh screening underneath	0	0
50 to 75% of homes have equivalent of fine mesh screening underneath	5	
Less than 50% of homes have equivalent of fine mesh screening underneath	10	
TOTAL BUILDING CONSTRUCTION HAZARD RATING		0

ADDITIONAL HAZARD FACTORS	Rating	
FIRE CONTROL WATER SUPPLY		
Pressurized hydrants with minimum 500 gpm < 1,000 ft apart	0	5
Pressurized hydrants with <500 gpm or spaced > 1,000 ft apart	2	
Dry hydrant(s) available year round within the community	2	
Other accessible sources within community	5	
Water sources located within 4 road miles of community	7	
No water sources within 4 road miles of community	15	
UTILITIES		
Both underground	0	5
One underground, one above ground	3	
Both above ground	5	
SURROUNDING ENVIRONMENT		
Community is not surrounded by any large natural landscapes	0	20
Large natural landscape adjoins one side of the community	5	
Large natural landscape adjoins two sides of the community	10	
Large natural landscape adjoins three sides of the community	15	
Community is completely surrounded by natural landscape	20	
UNDEVELOPED LOTS		
Less than 10% of lots have not been developed and pose no additional wildfire hazard due to lack of maintenance	0	5
10 to 50% of lots have not been developed	3	
51 to 75% of lots have not been developed	5	
Greater than 75% of lots have not been developed	10	
RISK LOCATION		
Community is located within the following designated Wildfire Risk Areas according to the Southern Wildfire Risk Assessment		
Low	0	10
Medium	10	
High	20	
TOTAL ADDITIONAL HAZARD FACTORS		35

OKLAHOMA FORESTRY DIVISION
COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT



Notes: Lake residents should develop a short term plan to address the dense brush and overgrowth that would inhibit patrons from safely evacuating in the event of a wildfire as well as preventing fire apparatus from accessing the scene. Possible solution is to increase road clearance to 10 feet on each side.

Residents should also work cooperatively with fire department personnel and county commissioners to develop a long term plan to increase road width that would enhance visibility and egress and create secondary access to county roads.

A couple of homes with overgrowth of grasses, shrubs and trees that need to be better maintained.

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