

# The Town of Canute

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## Community Wildfire Protection Plan

AN ACTION PLAN FOR WILDFIRE MITIGATION

DATE: March 2011

Prepared by: Mark Gardner  
Organization: South Western Oklahoma Development Authority (SWODA)  
Contact Information:  
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FAX 580/562-4880



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 Phillip D. Root, Mayor  
 Address P.O. Box 220, Canute, Ok 73626-0220  
 Phone Number 580/472-3111  
 Other Contact Information [canutech@cottonboll.com](mailto:canutech@cottonboll.com)

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Phone Number \_\_\_\_\_  
 Other Contact Information \_\_\_\_\_

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Phone Number \_\_\_\_\_  
 Other Contact Information \_\_\_\_\_

**Local Fire Department Representative(s):**

Name Jeremy Warnke, Fire Chief  
 Address P.O. Box 220, Canute, Ok 73626  
 Phone Number 580/563-2406  
 Other Contact Information [rbrinkley@windstream.net](mailto:rbrinkley@windstream.net)

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Phone Number \_\_\_\_\_  
 Other Contact Information \_\_\_\_\_

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Phone Number \_\_\_\_\_  
 Other Contact Information \_\_\_\_\_

**Local Oklahoma Division of Forestry Representative(s):**

Name Tom Murray, Area Forester  
 Address Box 569, Burns Flat, Ok 73624  
 Phone Number 580/562-4882  
 Other Contact Information 580/331-7319

Name Brian Hall, Staff Forester  
 Address ODAFF, 2800 N. Lincoln Blvd., Oklahoma City, Ok 73105  
 Phone Number 405-521-3264  
 Other Contact Information [Brian.hall@oda.state.ok.us](mailto:Brian.hall@oda.state.ok.us)

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

| Name             | Organization           |
|------------------|------------------------|
| Kyle Chervenka   | Canute Fire Department |
| Mary Beth Thomas | Canute Clerk           |
| Monty Brinkley   | Canute Fire Department |
| Tom Horton       | Canute Fire Department |
| Kevin Merz       | Canute Public Schools  |
| Tom Murray       | OK Forestry Service    |
|                  |                        |
|                  |                        |

# **PLAN CONTENTS**

1. Community Background and Existing Situation
2. Community Base Map and Other Visuals
3. Objectives and Goals
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## 1) COMMUNITY BACKGROUND AND EXISTING SITUATION

### Community Description:

County: Washita Latitude/Longitude: 35.422/-99.28  
 Frontage Road: Interstate 40 Nearest Intersection: Old Hwy 66  
 Nearest Fire Department (name/location): Canute Fire Department  
 Interface Areas: WUI on each side of Town with active railroad penetrating on the west side Year Established: 1901  
 Map #: 1- Base map

### Community Size: 541 – 2000 Census

Number of Lots: 1966 Number of Structures: 275  
 Estimated Acres: 350 Development Status: Residential

### Community Infrastructure:

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

### Contacts:

Name Jeremy Warnke, Fire Chief  
 Address P.O. Box 220, Canute, Ok 73626-0220  
 Phone Number 580/472-3111  
 Other Contact Information rbrinkley@windstream.net

Name Mark Gardner  
 Address P.O. Box 569, Burns Flat, Ok 73624  
 Phone Number 580-562-4882  
 Other Contact Information [markgardner@swoda.org](mailto:markgardner@swoda.org)

### Resident Population: 541 – 2010 Census

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

### Wildfire Hazard Rating: (check one)

Low  Moderate  High  Extreme

Date Evaluated: February 2011 *Attach Community Assessment Form.*

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

Located northwestern Washita County, Canute is approximately seven miles east of Elk City on I-40 and County Road N2080 and Old Route 66 runs East to West through town. The post office was established February 24, 1899. Historian George Shirk asserts that the town is named for King Canute of Denmark. The area first opened to non-Indian settlement in 1892, with the opening of the Cheyenne and Arapaho Reservation.

### Ingress / Egress

**Access:** The main access into town is by way of County Rd2080, which connects to I-40 to the North and Old Route 66 in the middle of town. County RD 2080 continues 9 miles to the south of town and connects to HWY 152. These ways of access are of hard surface types and are of adequate width as residents are leaving and fire apparatus approaching from mutual aid request.

Signage provides good guidance into Canute from each direction. The Major entry into Town would be from I-40. All entries are well marked and provide all-weather road adequate to handle emergency vehicle access in to all areas of Town. All major intersections and secondary roads are marked with "post-type" signs.

*Subdivision access:* With the small size to the Town, it has been divided in two sections. East and West sides with Main St being the dividing point. All city streets within the subdivisions are of hard surface type with sufficient width for emergency vehicle access.

*Emergency Evacuation:* Due to the small size of the Town, emergency evacuation route are likely to be second nature to the residents. In the East subdivision there are streets that have dead-ends. These streets do not provide adequate room for safe vehicle turn-rounds without backing into resident's yards. These areas will be of a major concern for the larger type of fire vehicles as maneuvering will take time to accomplish. Dependent upon the location of the fire, emergency communications will be essential in directing residents to the desire evacuation route.

*Street Signs:* All streets within the community are provided with high visibility, post-type street signs at all intersections. Most homes are also marked with house numbers that are clearly visible from the street.

#### Public Fire Protection

*Canute Volunteer Fire Department:* The Canute Fire Department is a very aggressive and community minded department that places public safety very high within their membership. With this aggressive nature the Town has a current ISO rating of a class 5. The department is well equipped to provide fire protection with a fleet of; 3-pumper trucks, 4-brush type trucks, 2-tanker trucks, 1-service truck and a well equipped rescue truck. The Fire Department provides protection to the residents with a staff of 20 volunteer firefighters working out of a single station located at 4<sup>th</sup> St. and Scheidel. The department augments its capabilities with mutual aid agreements with surrounding fire departments. The department takes the treat of wildfires very seriously and has procedures in place to respond quickly to any treat of a wildfire within and well as outside of the City limits.

#### Water Supply

The Town receives its water by the City Utilities department. The system contains a single 136,000 gallon stand pipe type storage tank and a total of 7 water wells. This system connects to the distribution system for the town and has standard type fire hydrant place approximately 600 feet apart. The system has adequate water flow for both structural fire protection and well as large front wildfires where multiple homes may be threatened.

#### Utilities

The Town of Canute receives its electrical service from AEP with overhead power lines. Natural gas is supplied by Center Point Energy through underground piping system. There are a few homes in town that use LP gas with storage tanks close to the structure. These LP tanks are at various locations throughout the town and could pose a threat in case of a wildfire migrating into the limits of town.

#### Defensible Space

The town is a farming community in which grassland enters into and surrounds the community on all sides. Although the homes range in construction dating to the early 1900's to present, they have good separation. The homes vary from ordinary wood frame construction with wood and vinyl siding to brick veneer. The town has a mix of hardwood and evergreen trees throughout the community. Most are well spaced but as common to small towns the trees are very close to structures with overhanging branches.

#### High Hazard Areas

All high hazard area noted are on private lands, therefore most mitigation projects are recommendations and education for land and home owners.

- 1) North of I-40 and West of N 2080 Rd – Pasture of native grass with Red Cedars. Remove Cedars and provide fire break of cool weather plants.
- 2) North of I-40 and East of N 2080 Rd – Pasture of bluestem grass with Cedar trees on the North side. Remove Cedars and provide fire break of cool weather plants.
- 3) South of I-40 to the West side of Town is a stand of Red Cedars. Remove Cedars.
- 4) Railroad Tracks – Overgrown with Johnson grass, and has piles of old cross ties. Visit with Railroad about removing ties and early spring spraying of herbicides.
- 5) Lee Ave and 2<sup>nd</sup> St – Home has LP tank with pallets staked around and on tank. Remove pallets.
- 6) South of Public Schools – Pasture of native grass. Provide fire break.

- 7) Beck and Root Propane on NW side of Town and Kilhoffer Propane on SE side of Town. These Companies themselves do pose a great threat as both have gravel lots and are fenced. Should one possibly be venting pressure during a wildfire event in close proximity there could be a chance of an explosion occurring.

### **Community Wildfire History: (include surrounding areas)**

Relative Frequency: 30

Common Causes: Carelessness, debris burning, lighting, electrical lines arching, sparks from train.

Areas of Future Concern: At present time the area is abnormally dry and moderate drought conditions are very likely. With these conditions continuing the chances of large wildfires are increasing.

Additional Comments:

## **2) COMMUNITY BASE MAP AND OTHER VISUALS**

*See map #1 Base Map.*

## **3) OBJECTIVES / GOALS**

Edit as needed to match community needs.

### **Objectives:**

The objectives of this plan/report are to set clear priorities for the implementation of wildfire mitigation in the identified community. This includes prioritized recommendations for the community as a whole and also for individual homeowners where appropriate.

### **Goals:**

The goals are fuel reduction and structure ignitability reduction that will protect this community and its essential infrastructure. It also includes a wildfire pre-suppression plan.

## **4) PRIORTIZED MITIGATION RECOMMENDATIONS**

The following recommendations were developed by the Community Firewise Working Group or Fire Council 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 in the assessment area.

### **Proposed Community Hazard Reduction Priorities:**

List area and treatment recommended.

1. Work with land owners to secure grants for Cedar Tree eradication.
2. Provide fire breaks in grass pastures surrounding the Town.
3. Contact railroad to do spraying of vegetation and remove old crossties from right of way.
4. Excessive tree growth close to homes. Educate home owners as to these hazards.
5. Elevated open decks. Encourage homeowners to enclose with ¼" storm screening or other flame resistant materials.
6. Investigate the possibility of doing prescribed burns on fringe of Town to lessen fire loads

**Proposed Structural Ignitability Reduction Priorities:**

Actions to be taken by homeowners.

1. Remove all firewood from within 30 feet of homes.
2. Enclose elevated decks with storm screening or other non-combustible materials.
3. Prune all tree limbs to a level of 6 feet above ground level.
4. Prune tree limbs that are overhanging home roofs.
5. Clean debris from around home and property.
6. Continue City wide clean-up week.

**Proposed Education and Outreach Priorities:**

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

1. Educate homeowners about creating defensible space and reducing fuel loads near homes.
2. Begin annual Firewise Day in conjunction with fund raising event
3. Include Firewise information during school visits.
4. Send Firewise information along with water bills.
5. Offer home firewise assessments.

**5) ACTION PLAN****Funding Needs:**

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

1. Increase public awareness by placing brochures at City Hall and Bank. Free from OK Forestry.
2. Firewise booth during fund raising event. No funds needed information from OK Forestry.
3. Apply for grants for Cedar Tree eradication. NCRS
4. School Firewise talks. Materials free from OK Forestry Service.
5. Community clean-up week. City to continue to supply large refuge boxes.
6. Equipment to do prescribed burning projects. Undetermined cost.

**Timetables:**

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

1. Place brochures at City Hall and Post Office beginning May each year.
2. Start mailing Firewise information with water bills May and October.
3. Firewise booth May each year during fund raiser event.
4. School visits October each year during Fire Prevention week.
5. City wide clean-up April each year.
6. Submit Firewise Community/USA application.

**Assessment:**

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

1. Monitor number of Firewise brochures being picked up by residents.
2. Observe residents removing trees close to homes and pruning branches.
3. Spring clean-up week generating large amount of refuge.
4. Community recognized as Firewise Community/USA.

**6) WILDFIRE PRE-SUPPRESSION PLAN****A. Wildfire Protection Responsibility**

Structural Protection: Canute Volunteer Fire Department

Wildland Protection: Canute Volunteer Fire Department

**B. Incident Command Post Location**

Incident specific

**C. Incident Staging Area Location**

Incident specific

**D. Medical Unit Staging Area Location**

Incident specific

**E. Alarm Response****First Alarm**

| Fire Department/Rescue Squad | Travel Distance | Response Time |
|------------------------------|-----------------|---------------|
| Canute Fire Department       | Local           | 7 - minutes   |
|                              |                 |               |
|                              |                 |               |

**Second Alarm (report to designated staging area)**

| Fire Department/Rescue Squad | Travel Distance | Response Time |
|------------------------------|-----------------|---------------|
| Elk City Fire Department     | 8 – miles       | 10 – minutes  |
| Foss Fire Department         | 7 – miles       | 15 - minutes  |
| Burns Flat Fire Department   | 13 – miles      | 20 – minutes  |
| Clinton Fire Department      | 20 – miles      | 20 – minutes  |
| Butler Fire Department       | 21 – miles      | 25 – minutes  |
| Dill City Fire Department    | 20 – miles      | 20 – minutes  |

**F. Air Support****Fixed Wing**

| Aircraft                                    | Contact Number | Dispatching Guidelines                                   |
|---|----------------|--|
| Oklahoma Department of Emergency Management | (405) 206-0872 | Dependant availability through Oklahoma Forestry Service |
|   |                |  |
|   |                |  |

**Helicopter**

| Aircraft                                    | Contact Number | Dispatching Guidelines                                   |
|---|----------------|--|
| Oklahoma Department of Emergency Management | (405) 206-0872 | Dependant availability through Oklahoma Forestry Service |
|   |                |  |
|   |                |  |

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

|  |   |
|--|---|
| Location: Pressurized hydrants throughout Town | Description: Standard type fire hydrants. |
| Location: _____                                | Description: _____                        |
| Location: _____                                | Description: _____                        |
| Location: _____                                | Description: _____                        |

**H. Communications (Attach Communications Plan if available)**

| Name                                | Phone Number   | Radio Frequencies |
|-------------------------------------|----------------|-------------------|
| Dispatch/Fire Departments           |                |                   |
| Elk City Fire Department            | (580) 323-1313 | 154.130           |
| Elk City E-911 PSAP                 | 911            | 154.130           |
|                                     |                |                   |
| Local Department of Forestry Office |                |                   |
| Tom Murray                          | (580) 331-7319 | 154.130           |
| Other                               |                |                   |
|                                     |                |                   |
|                                     |                |                   |
|                                     |                |                   |

**I. Evacuation (Attach Evacuation Plan)**

**J. Resource List**

| Name                             | Contact Information | Payment Information |
|----------------------------------|---------------------|---------------------|
| Support Agencies                 |                     |                     |
| Washita County Commissioners     | (580) 832-2284      | Free                |
| Washita Co. Emergency Management | (580) 832-2144      | Free                |
| Washita Co. Sheriff              | (580) 832-2370      | Free                |
| Oklahoma Highway Patrol          | (580) 323-2424      | Free                |
|                                  |                     |                     |
| Tractor Operators                |                     |                     |
| Raydell Schneberger              | (580) 674-3392      | Free                |
|                                  |                     |                     |
|                                  |                     |                     |
| Crews                            |                     |                     |

|                         |                |                    |
|-------------------------|----------------|--------------------|
| BIA                     | (580) 772-2635 | Free               |
|                         |                |                    |
|                         |                |                    |
|                         |                |                    |
| Utilities               |                |                    |
| PSO – Electric          | (888) 216-3523 | Free               |
| ONG – Gas               | (800) 458-4251 | Free               |
| Canute Water Department | (405) 826-7525 | Free               |
|                         |                |                    |
|                         |                |                    |
| Fuel                    |                |                    |
| Domino Food & Fuel      | (580) 472-3422 | Cash – Credit Card |
| Kilhoffer Propane       | (580) 472-3286 | Credit Card        |
|                         |                |                    |
|                         |                |                    |
| Food and Supplies       |                |                    |
| Domino Food & Fuel      | (580) 472-3422 | Cash – Credit Card |
|                         |                |                    |
|                         |                |                    |
|                         |                |                    |
|                         |                |                    |
| Lodging                 |                |                    |
| Economy Inn             | (580) 472-3141 | Credit Card        |
| Comfort Inn & Suites    | (580) 303-9100 | Credit Card        |
| Motel 6                 | (580) 225-2541 | Credit Card        |
| Ramada Inn              | (580) 225-8140 | Credit Card        |

## 7) ADDITIONAL COMMENTS

At the present time we are in a moderate drought condition. With the low amounts of precipitation and low relative humidity levels being experienced wildfires are quickly going beyond the first response capabilities. The vegetation is still extremely dry and fires are quickly expanding necessitating multiple Fire Department responses for fire control.

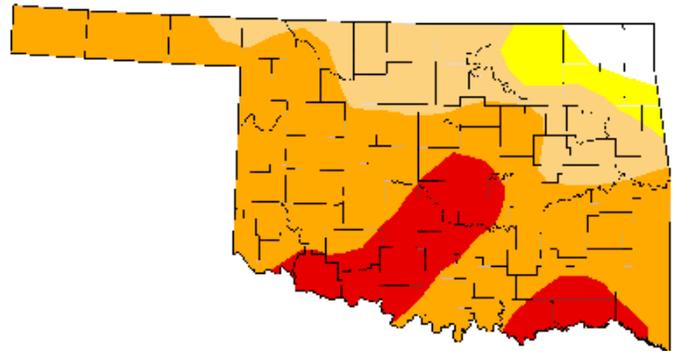
# U.S. Drought Monitor

## Oklahoma

March 29, 2011  
Valid 7 a.m. EST

Drought Conditions (Percent Area)

|  | None   | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4   |
|--|--------|-------|-------|-------|-------|------|
| Current                                    | 2.83   | 97.17 | 92.03 | 71.84 | 15.82 | 0.00 |
| Last Week<br>(03/22/2011 map)              | 4.38   | 95.62 | 83.58 | 54.46 | 8.78  | 0.00 |
| 3 Months Ago<br>(12/28/2010 map)           | 13.82  | 86.18 | 47.90 | 1.50  | 0.00  | 0.00 |
| Start of Calendar Year<br>(12/28/2010 map) | 13.82  | 86.18 | 47.90 | 1.50  | 0.00  | 0.00 |
| Start of Water Year<br>(09/28/2010 map)    | 66.28  | 33.72 | 4.21  | 0.00  | 0.00  | 0.00 |
| One Year Ago<br>(03/23/2010 map)           | 100.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 |



**Intensity:**

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://drought.unl.edu/dm>



Released Thursday, March 31, 2011

Eric Luebehusen, United States Department of Agriculture

**8) ATTACHMENTS (List here in order of attachment)**

Page 13 Base Map

Page 14 Assessment Map

Page 15 Road Width Map

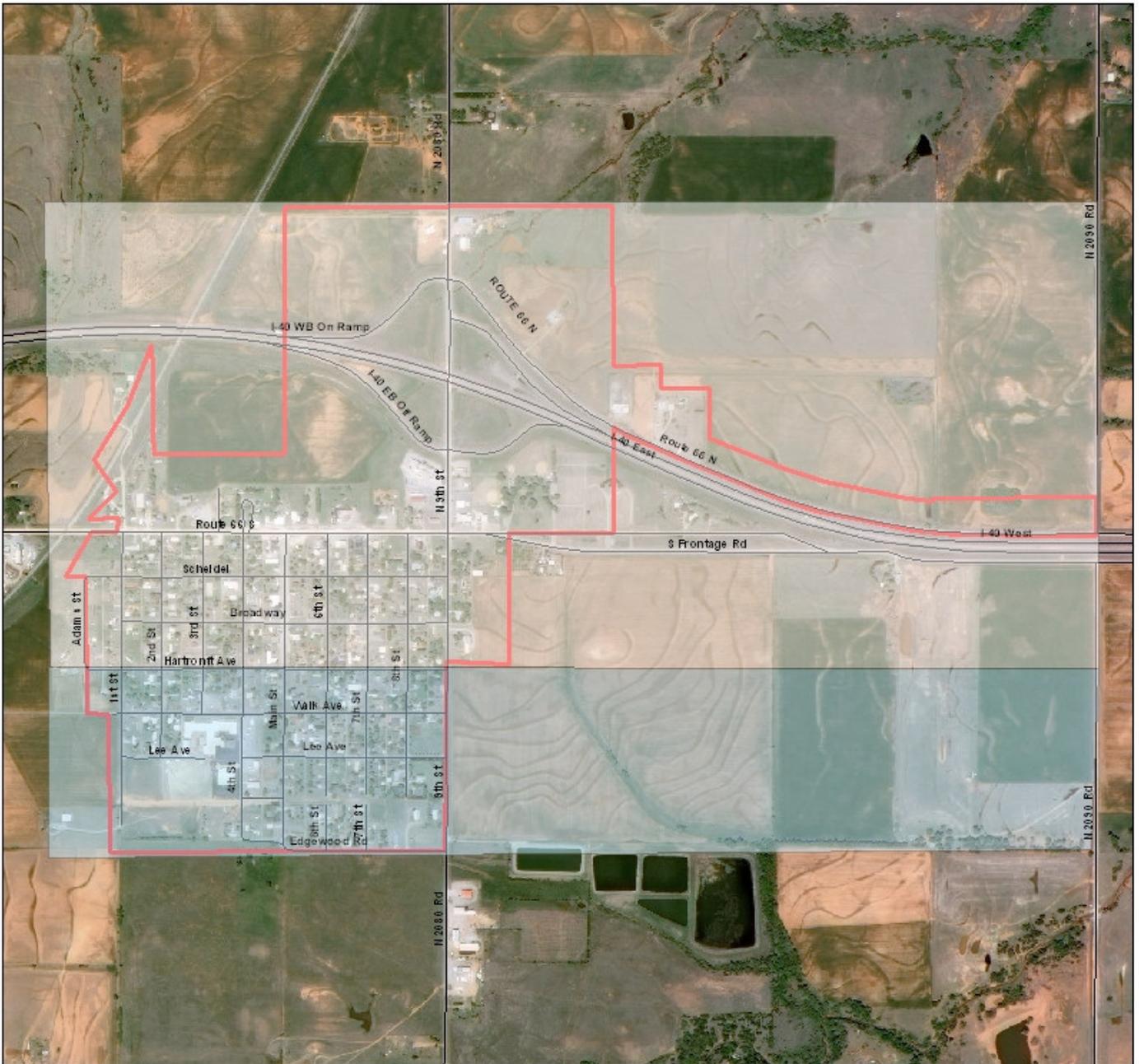
Page 16 Ingress / Egress Map

Page 17 High Hazard Map

Page 18 Hydrant Map



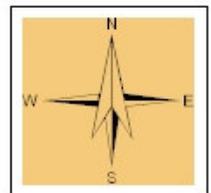
# ASSESSMENT



**LEGEND**

**Assessment Section**

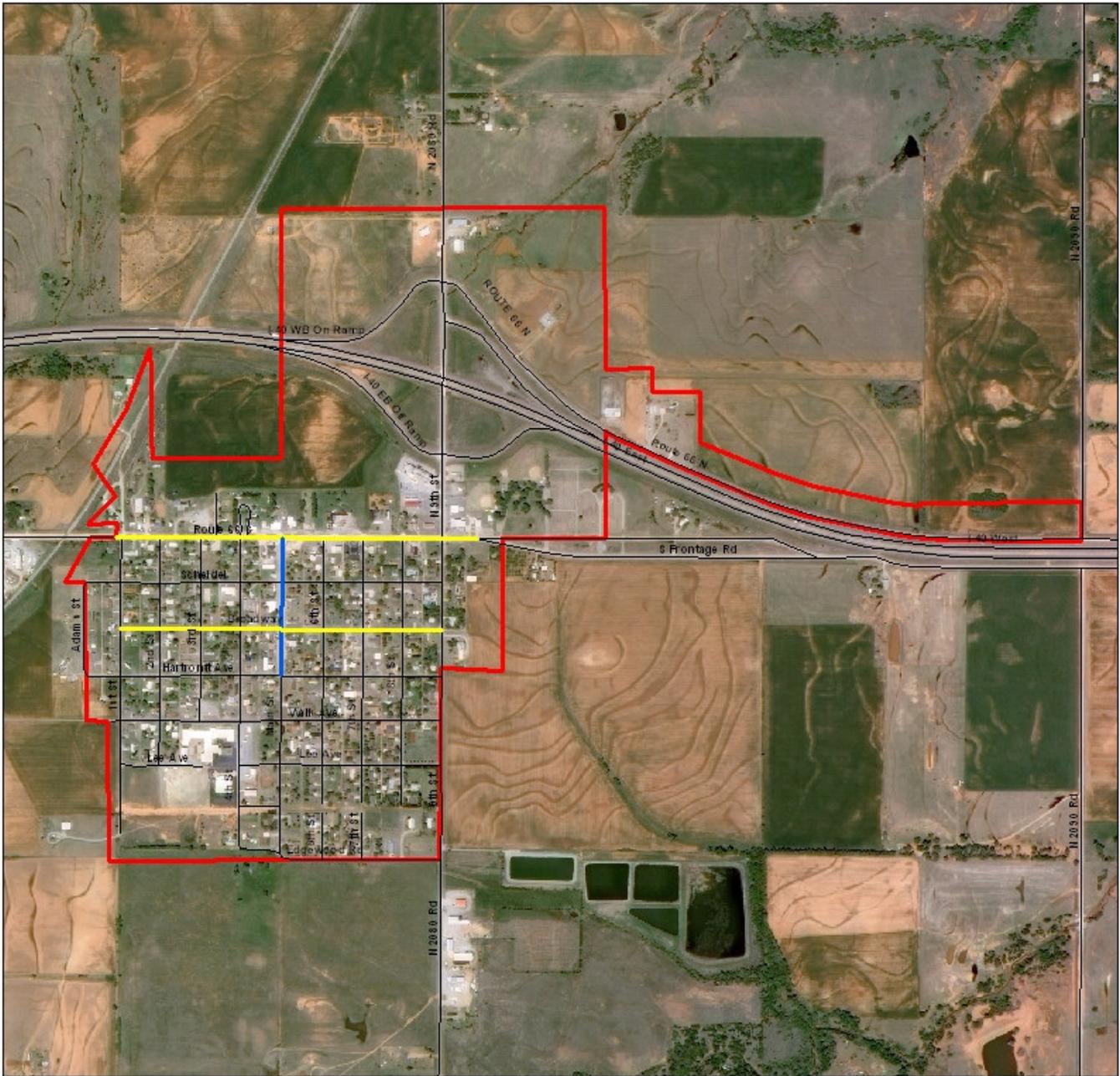
- North
- South
- Roads
- City Limits



DISCLAIMER

The features depicted on this map are intended for general informational and planning purposes. This map is not intended as a legal document and should not be considered as such. While every effort has been made to be accurate, the accuracy of this map, nevertheless, is not guaranteed, and this information presented should not be used for precise ground location.

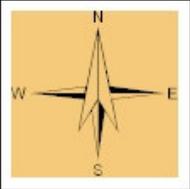
# ROAD WIDTH



**LEGEND**

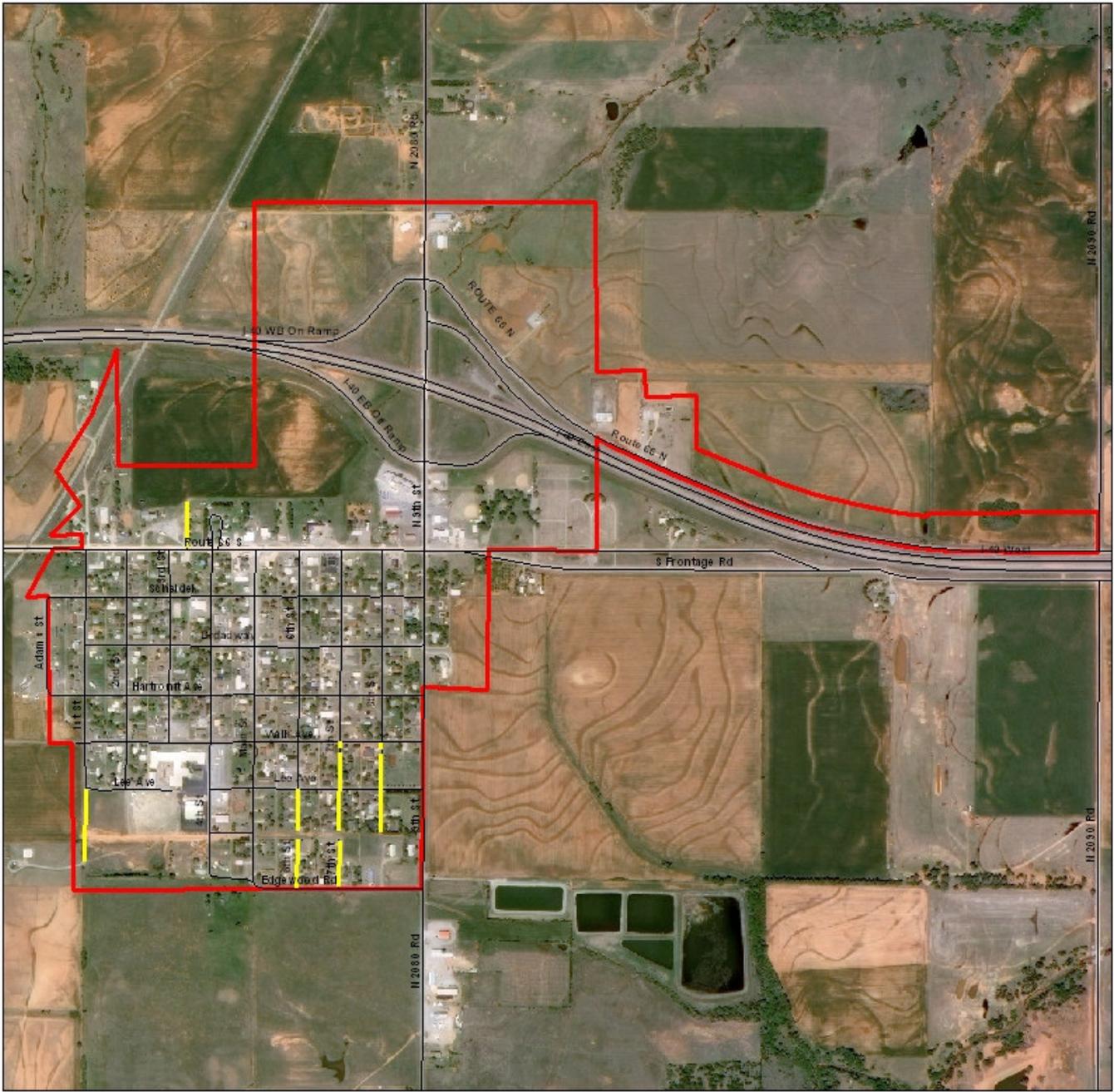
**Road Width**

- 66'
- 80'
- Roads
- City Limits



**DISCLAIMER**  
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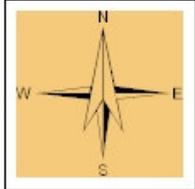
# INGRESS / EGRESS



**LEGEND**

**Ingress\_Egress**

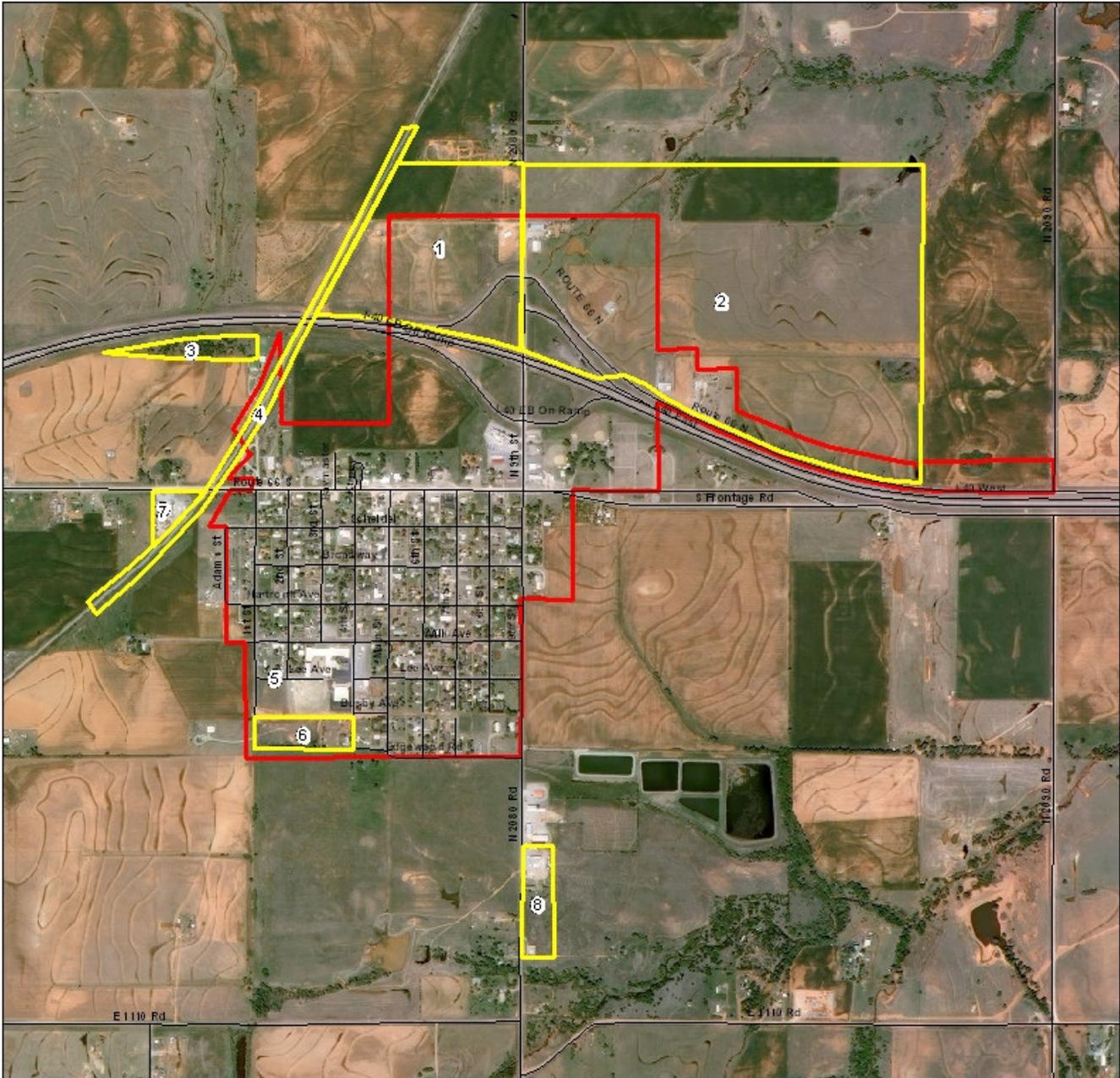
- 1 Way
- Roads
- City Limits



DISCLAIMER

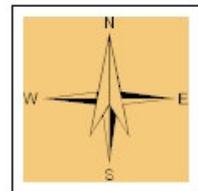
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# HIGH HAZARD



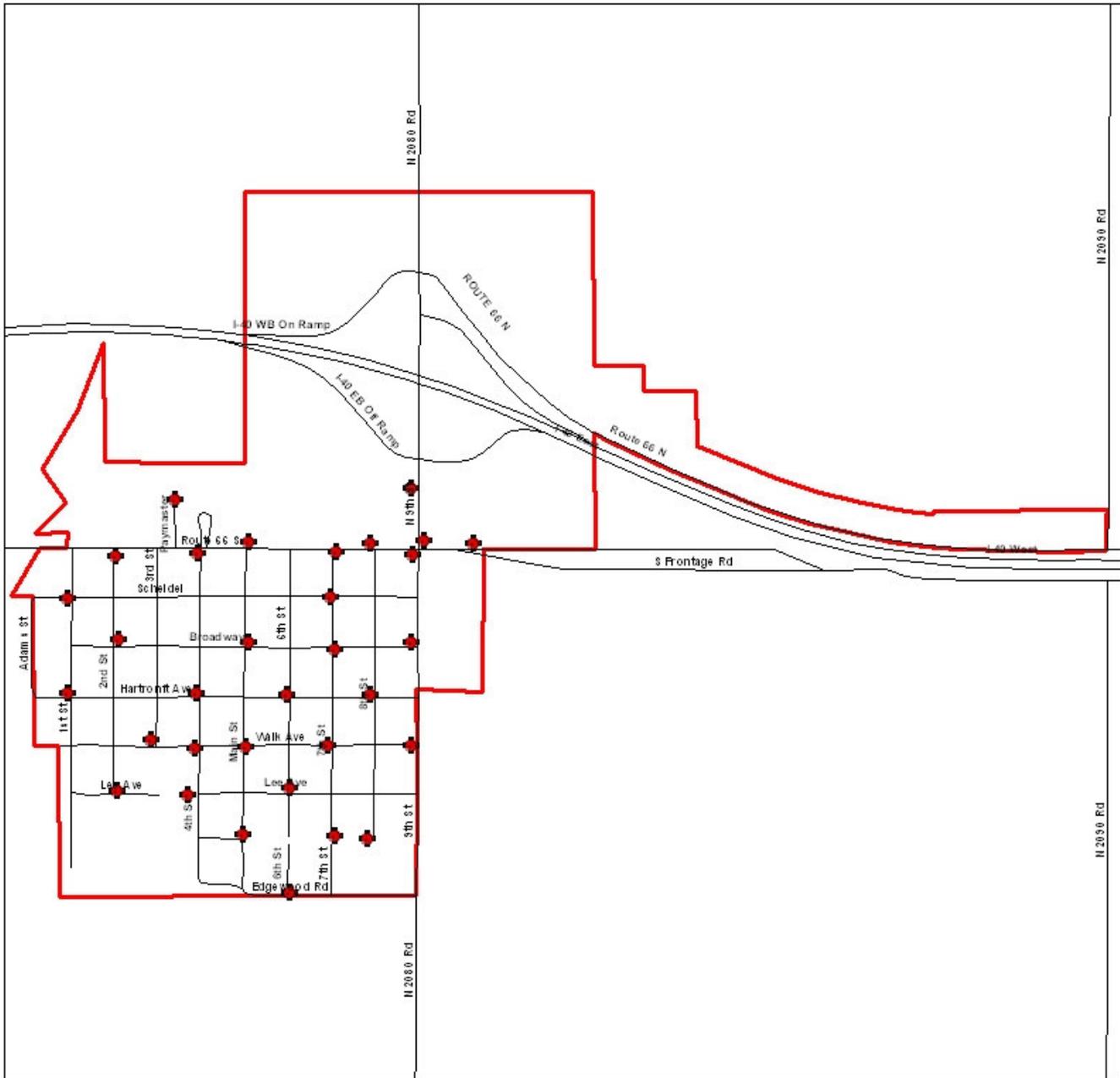
**LEGEND**

- Areas
- Roads
- City Limits



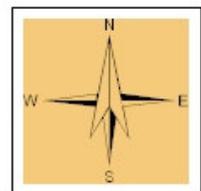
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# FIRE HYDRANTS



**LEGEND**

- + Fire Hydrants
- Roads
- City Limits



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

Forestry Office: Burns Flat  
 Community: Canute North side County: Washita  
 Latitude: 35°25'14"N Longitude: 99°16'48"W  
 Fire Department: Canute Volunteer Fire Department  
 Date: January 2011  
 Acres: 350 Lots: 1966 Homes: 275 Future Homes: < 10

**CALCULATING THE WILDFIRE HAZARD RATING**

| <b>SUBDIVISION DESIGN HAZARD RATING</b> | <b>+ SITE HAZARD RATING</b> | <b>+ BUILDING CONSTRUCTION HAZARD RATING</b> | <b>+ ADDITIONAL FACTOR HAZARD RATING</b> | <b>= OVERALL WILDFIRE HAZARD RATING</b> |
|---|-----------------------------|--|--|---|
| 2                                       | 30                          | 15   | 31                                       | 78                                      |

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

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

| <b>SITE HAZARD RATING: (Within 30 feet of structure based on a majority of the properties in the community)</b> | <b>Rating</b> |           |
|---|---------------|-----------|
| <b>DRIVEWAY CHARACTERISTICS</b>   |               |           |
| Less than 150 feet long   | 0             | 0         |
| More than 150 ft with minimum 45 foot outside radius turnaround   | 3             |           |
| More than 150 ft with inadequate turnaround   | 5             |           |
| Average driveway width more than 12 ft  | 0             |           |
| Average driveway width less than 12 ft  | 5             | 5         |
| No obstructing overhead branches below 15 ft  | 0             | 0         |
| Obstructing overhead branches below 15 ft   | 5             |           |
| No bridges or bridges with no weight 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 visible from road   | 5             |           |
| <b>DOMINANT TREES (within 100 ft of homes)</b>  |               |           |
| Deciduous   | 1             |           |
| Mixed   | 5             | 5         |
| Evergreen   | 10            |           |
| <b>LADDER FUELS</b>   |               |           |
| Evergreen branches close to ground  | 5             | 5         |
| Evergreen branches pruned up at least 6 ft  | 0             |           |
| <b>VEGETATION (predominant type throughout community)</b>   |               |           |
| Light (e.g. grasses and forbs)<br>NFDRS Fuel Models A, C, L, N, S and T   | 5             | 5         |
| Medium (e.g. light brush and small trees)<br>NFDRS Fuel Models D, E, F, H, P, Q and U                           | 10            |           |
| Heavy (e.g. dense brush, timber and hardwoods)<br>NFDRS Fuel Models B, G and O                                  | 20            |           |
| Slash (e.g. timber harvesting residue)<br>NFDRS Fuel Models J, K and L  | 25            |           |
| <b>SLOPE OF PROPERTY</b>  |               |           |
| Flat (0-5%)   | 0             | 0         |
| Moderate (6-20%)  | 2             |           |
| Steep (over 20%)  | 4             |           |
| <b>DEFENSIBLE SPACE</b>   |               |           |
| No trees, shrubs or tall grass within 30 ft   | 0             |           |
| Well spaced trees and shrubs within 30 ft   | 10            | 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 100ft  | 5             |           |
| <b>TOTAL SITE HAZARD RATING</b>   |               | <b>30</b> |

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

| <b>BUILDING CONSTRUCTION HAZARD RATING</b>  | <b>Rating</b> |    |
|---|---------------|----|
| <b>ROOFING MATERIALS</b>  |               |    |
| Greater than 75% of homes have metal, tile or Class A shingles  | 0             | 10 |
| 50 to 75% of homes have a metal, tile or Class A shingles   | 10            |    |
| Less than 50% of homes have metal, tile or Class A shingles   | 15            |    |
| <b>SIDING / SOFFETS</b>   |               |    |
| 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            |    |
| <b>UNDERSKIRTING</b>  |               |    |
| Greater than 75% of homes have the equivalent of fine mesh screening underneath   | 0             | 0  |
| 50 to 75% of the homes have the equivalent of fine mesh screening underneath  | 5             |    |
| Less than 50% of the homes have the equivalent of fine mesh screening underneath  | 10            |    |
| <b>TOTAL BUILDING CONSTRUCTION HAZARD RATING</b>  |               | 15 |
| Water sources located within 4 road miles of community  | 7             |    |
| No water sources within 4 miles of the community  | 15            |    |
| <b>UTILITIES</b>  |               |    |
| Both underground  | 0             | 3  |
| One underground, one above ground   | 3             |    |
| Both aboveground  | 5             |    |
| <b>SURROUNDING ENVIRONMENT</b>  |               |    |
| Community is not surrounded by any large natural landscape  | 0             | 15 |
| 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            |    |
| <b>UNDEVELOPED LOTS</b>   |               |    |
| Less than 10% of lots have not been developed and pose no additional wildfire hazard due to lack of maintenance                           | 0             | 3  |
| 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            |    |
| <b>RISK LOCATION</b>  |               |    |
| Community is located within the following designated Wildland Fire Suceptibility Index according to the Southern Wildfire Risk Assessment |               |    |
| Low (Class Value 1 - 2)   | 0             | 10 |
| Medium (Class Value 3 - 5)  | 10            |    |
| High (Class Value 6 - 9)  | 20            |    |
| <b>TOTAL ADDITIONAL HAZARD FACTORS</b>  |               | 31 |

**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 Hazard 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 Hazard 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 Hazard 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 Hazard 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.

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**

Forestry Office: Burns Flat  
 Community: Canute, South Side County: Washita  
 Latitude: 35°25'14"N Longitude: 99°16'48"W  
 Fire Department: Canute volunteer Fire Department  
 Date: January 2011  
 Acres: 350 Lots: 1966 Homes: 275 Future Homes: <10

**CALCULATING THE WILDFIRE HAZARD RATING**

| <b>SUBDIVISION DESIGN HAZARD RATING</b> | <b>+ SITE HAZARD RATING</b> | <b>+ BUILDING CONSTRUCTION HAZARD RATING</b> | <b>+ ADDITIONAL FACTOR HAZARD RATING</b> | <b>= OVERALL WILDFIRE HAZARD RATING</b> |
|---|-----------------------------|--|--|---|
| 16                                      | 30                          | 10   | 31                                       | 87                                      |

| <b>SUBDIVISION DESIGN RATING</b>                               | <b>Rating</b> |           |
|--|---------------|-----------|
| <b>ACCESS</b>  |               |           |
| Two or more roads  | 0             |           |
| One road, plus alternative                                     | 3             | 3         |
| One road in/out  | 7             |           |
| <b>SUBDIVISION BRIDGES</b>                                     |               |           |
| No bridges or bridges with no weight and or width restrictions | 0             | 0         |
| Low weight or narrow bridges restricting emergency access      | 5             |           |
| <b>PRIMARY ROAD WIDTHS</b>                                     |               |           |
| >24 ft   | 0             |           |
| >20 ft and <24 ft  | 2             | 2         |
| <20 ft   | 4             |           |
| <b>ACCESSIBILITY</b>   |               |           |
| Surfaced road, grade < 5%                                      | 0             | 0         |
| Surfaced road, grade > 5%                                      | 2             |           |
| Non-surface road, grade < 5%                                   | 2             |           |
| Non-surface road, grade > 5%                                   | 5             |           |
| Other than all-season road                                     | 7             |           |
| <b>SECONDARY ROAD TERMINUS</b>                                 |               |           |
| < 300 ft with turnaround                                       | 0             |           |
| > 300 ft with turnaround                                       | 2             |           |
| < 300 ft without turnaround                                    | 4             | 4         |
| > 300 ft without turnaround                                    | 5             |           |
| <b>UNSAFE ROADWAY</b>  |               |           |
| No flammable vegetation threat                                 | 0             |           |
| Highly flammable vegetation along road                         | 5             | 5         |
| <b>STREET SIGNS</b>  |               |           |
| Present 4 inches in size and reflective                        | 0             | 0         |
| Not present  | 5             |           |
| <b>TOTAL SUBDIVISION DESIGN</b>                                |               | <b>16</b> |

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

| <b>SITE HAZARD RATING: (Within 30 feet of structure based on a majority of the properties in the community)</b> | <b>Rating</b> |           |
|---|---------------|-----------|
| <b>DRIVEWAY CHARACTERISTICS</b>   |               |           |
| Less than 150 feet long   | 0             | 0         |
| More than 150 ft with minimum 45 foot outside radius turnaround   | 3             |           |
| More than 150 ft with inadequate turnaround   | 5             |           |
| Average driveway width more than 12 ft  | 0             |           |
| Average driveway width less than 12 ft  | 5             | 5         |
| No obstructing overhead branches below 15 ft  | 0             | 0         |
| Obstructing overhead branches below 15 ft   | 5             |           |
| No bridges or bridges with no weight 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 visible from road   | 5             |           |
| <b>DOMINANT TREES (within 100 ft of homes)</b>  |               |           |
| Deciduous   | 1             |           |
| Mixed   | 5             | 5         |
| Evergreen   | 10            |           |
| <b>LADDER FUELS</b>   |               |           |
| Evergreen branches close to ground  | 5             | 5         |
| Evergreen branches pruned up at least 6 ft  | 0             |           |
| <b>VEGETATION (predominant type throughout community)</b>   |               |           |
| Light (e.g. grasses and forbs)<br>NFDRS Fuel Models A, C, L, N, S and T   | 5             | 5         |
| Medium (e.g. light brush and small trees)<br>NFDRS Fuel Models D, E, F, H, P, Q and U                           | 10            |           |
| Heavy (e.g. dense brush, timber and hardwoods)<br>NFDRS Fuel Models B, G and O                                  | 20            |           |
| Slash (e.g. timber harvesting residue)<br>NFDRS Fuel Models J, K and L  | 25            |           |
| <b>SLOPE OF PROPERTY</b>  |               |           |
| Flat (0-5%)   | 0             | 0         |
| Moderate (6-20%)  | 2             |           |
| Steep (over 20%)  | 4             |           |
| <b>DEFENSIBLE SPACE</b>   |               |           |
| No trees, shrubs or tall grass within 30 ft   | 0             |           |
| Well spaced trees and shrubs within 30 ft   | 10            | 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 100ft  | 5             |           |
| <b>TOTAL SITE HAZARD RATING</b>   |               | <b>30</b> |

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

| <b>BUILDING CONSTRUCTION HAZARD RATING</b>  | <b>Rating</b> |    |
|---|---------------|----|
| <b>ROOFING MATERIALS</b>  |               |    |
| Greater than 75% of homes have metal, tile or Class A shingles  | 0             | 10 |
| 50 to 75% of homes have a metal, tile or Class A shingles   | 10            |    |
| Less than 50% of homes have metal, tile or Class A shingles   | 15            |    |
| <b>SIDING / SOFFETS</b>   |               |    |
| 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             |    |
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| <b>UNDERSKIRTING</b>  |               |    |
| Greater than 75% of homes have the equivalent of fine mesh screening underneath   | 0             | 0  |
| 50 to 75% of the homes have the equivalent of fine mesh screening underneath  | 5             |    |
| Less than 50% of the homes have the equivalent of fine mesh screening underneath  | 10            |    |
| <b>TOTAL BUILDING CONSTRUCTION HAZARD RATING</b>  |               | 10 |
| <b>ADDITIONAL HAZARD FACTORS</b>  |               |    |
| <b>FIRE CONTROL WATER SUPPLY</b>  |               |    |
| Pressurized hydrants with minimum 500 gpm < 1,000 ft apart  | 0             | 0  |
| 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 miles of the community  | 15            |    |
| <b>UTILITIES</b>  |               |    |
| Both underground  | 0             | 3  |
| One underground, one above ground   | 3             |    |
| Both aboveground  | 5             |    |
| <b>SURROUNDING ENVIRONMENT</b>  |               |    |
| Community is not surrounded by any large natural landscape  | 0             | 15 |
| 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            |    |
| <b>UNDEVELOPED LOTS</b>   |               |    |
| Less than 10% of lots have not been developed and pose no additional wildfire hazard due to lack of maintenance                           | 0             | 3  |
| 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            |    |
| <b>RISK LOCATION</b>  |               |    |
| Community is located within the following designated Wildland Fire Suceptibility Index according to the Southern Wildfire Risk Assessment |               |    |
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| High (Class Value 6 - 9)  | 20            |    |
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**OKLAHOMA FORESTRY DIVISION**  
**COMMUNITY WILDFIRE RISK AND HAZARD ASSESSMENT**

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