

# North Carolina's Wildfire Hazard & Risk Assessment Scoresheet

This document is based upon the NFPA 1144

**DIRECTIONS:** Assign a value to the most appropriate element in each category and place the number of points in the box on the right.

## A. Means of Access

### 1. Ingress and egress

a. Two or more roads in/out	0	
b. One road in/out	7	

### 2. Road width

a. Greater than or equal to 24 feet (7.3 m)	0	
b. Greater than or equal to 20 feet (6.1 m) and less than 24 feet (7.3 m)	2	
c. Less than 20 feet (6.1 m)	4	

### 3. All-season road condition

a. Surfaced road, grade is less than or equal to 5%	0	
b. Surfaced road, grade is greater than 5%	2	
c. Non-surfaced road, grade is less than or equal to 5%	3	
d. Non-surfaced road, grade is greater than 5%	5	
e. Other than all-season	7	

### 4. Fire service access (road length)

a. Majority of dead-end roads are less than or equal to 300 feet long (91.4 m)	0	
b. Majority of dead-end roads are greater than 300 feet long (91.4 m)	5	

### 5. Fire service turnaround capability

a. Turnarounds or cul-de-sacs are present with a radius greater than or equal to 50 feet	0	
b. Turnarounds or cul-de-sacs have a radius less than 50 feet	2	
c. No turnarounds or cul-de-sacs present	5	

### 6. Street signs

a. Present, 4 inches (102 cm) in size and reflective	0	
b. Present, but wooden and/or non-reflective	3	
c. Not present	5	

## B. Vegetation (fuel models)

### 1. Characteristics of predominate vegetation within 300 feet (91.4 m)

a. Light (eg, grasses, herbaceous plants, sawgrasses, and bay vegetation) FBPS Fuel Models 1, 2 and 3	5	
b. Medium (eg, light brush and small trees) FBPS Fuel Models 5, 6, 7, 8, and 9	10	
c. Heavy (eg, dense brush, timber, and hardwoods) FBPS Fuel Models 4 and 10	20	
d. Slash (eg, timber harvesting residue) FBPS Fuel Models 11, 12 and 13	25	

### 2. Fuel Clearance Zone

a. More than 100 feet (30.48 m) of vegetation treatment from the structure(s)	1	
b. 71 - 100 feet (21.6 m to 30.48 m) of vegetation treatment from the structure(s)	3	
c. 30 - 70 feet (9.14 m to 21.3 m) of vegetation treatment from the structure(s)	10	
d. Less than 30 feet (9.14 m) of vegetation treatment from the structure(s)	25	

## C. Topography within 300 feet (91.4 m) of structure(s)

### 1. Slope

a. Slope is less than or equal to 9%	1	
b. Slope 10% to 20%	4	
c. Slope 21% to 30%	7	
d. Slope 31% to 40%	8	
e. Slope is greater than 41%	10	

## D. Additional Rating Factors (rate all that apply)

### 1. Miscellaneous

a. Topographical features that adversely affect wildland behavior	0-5	
b. Areas with a history of higher fire occurrence than surrounding areas due to special situations (lightning, railroads, escaped debris burning, and arson)	0-5	
c. Areas that are periodically exposed to severe fire weather and strong dry winds	0-5	
d. Separation of adjacent structures that can contribute to fire spreads	0-5	

## E. Roofing Assembly

### 1. Roof composition of the majority of homes

a. Class A roof - Noncombustible roof	0	
b. Class B roof - Moderate fire resistive roof	3	
c. Class C roof - Low fire resistive roof	15	
d. Non-rated – Combustible roof	25	

## F. Building Construction

### 1. Building construction of homes, siding, eaves, and deck

a. Noncombustible/fire-resistant siding, eaves, and deck	0	
b. Noncombustible/fire-resistant siding, eaves and combustible deck	5	
c. Combustible siding, eaves, and deck	10	

### 2. Building setback relative to slopes of 30% or more

a. Not applicable	0	
b. Greater than or equal to 30 feet (9.14 m) to slope	1	
c. Less than 30 feet (9.14 m) to slope	5	

## G. Available Fire Protection

### 1. Water source availability

a. Pressurized water source availability - 500 gpm (1892.7 L/min) hydrants less than or equal to 1000 feet apart	0	
b. Pressurized water source availability - 250 gpm (946.4 L/min) hydrants less than or equal to 1000 feet apart	1	
c. Non-pressurized water source (off site) greater than or equal to 250 gpm (946.4 L/min) continuous for 2 hours	3	
d. Non-pressurized water source (off site) - less than 250 gpm (946.4 L/min) continuous for 2 hours	5	
e. Water unavailable	10	

### 2. Organized response resources

a. Nearest station is less than or equal to 15 minutes from structure(s)	1	
b. Nearest station is greater than 15 minutes from structure(s)	5	

### 3. Fixed fire protection

a. Outdoor sprinkler system	1	
b. NFPA 13, 13R, 13D indoor sprinkler system	3	
c. None	5	

## H. Placement of Gas and Electric Utilities

### 1. Placement of utilities

a. Both underground	0	
b. One underground, one above ground	3	
c. Both aboveground	5	

## I. Totals for Home or Subdivision (total of all points)

Hazard Assessment	Total Points	Total for Home or Community		
Low	< 40	Community Name:	County:	Lat/Long:
Moderate	40-69	Number of Homes:	Undeveloped Lots:	
High	70-112	Assessor's Name:	Date:	Total Score:
Extreme	> 112			