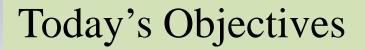


## Fire Effects Monitoring Results

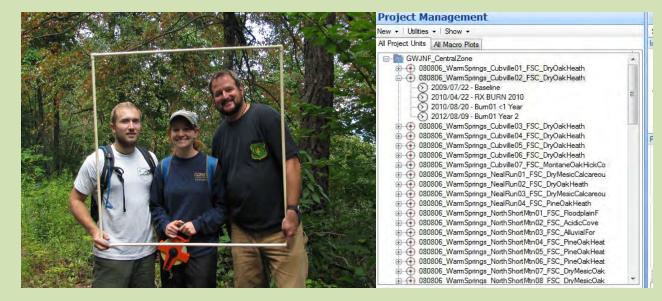
Nikole Simmons & Lindsey Curtin Central Apps FLN Meeting November 8, 2017







### Discuss results of Forest Structure and Composition monitoring



Forest Structure and Composition



### Project Area



## Heart of the Appalachians FLN Monitoring Working Group

Group Coordinators: Nikole Simmons, TNC & Lindsey Curtin, USFS

Jean Lorber, TNC

John Moncure, USFS

Ron Nixon, USFS

Beth Buchanan, USFS

Tyler Urgo, VDGIF

Laurel Schablein, TNC

Lane Gibbons, NPS











Adam Christie, VA DCR NH

Forest Structure and Composition Monitoring Methods and Stats

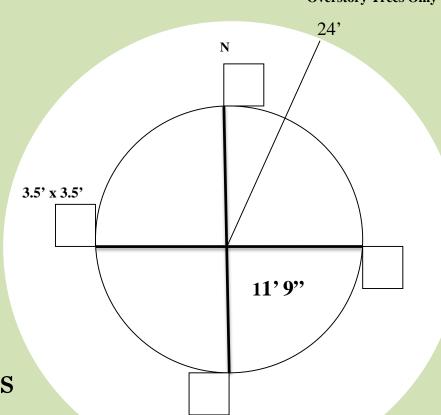
425 Plots Total

948 Plot Visits

Plots Stratified by Vegetation Type

46 burn units, 63,000 acres

Plots visited 1 year post burn and again at 5 years



**Overstory Trees Only** 

## **Overstory Changes**

Burn Plan Objectives:

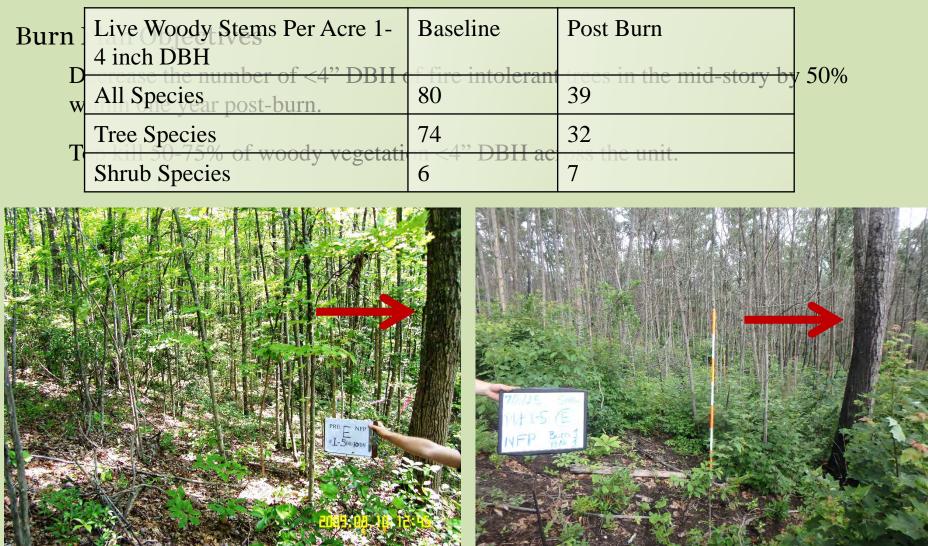
Reduce overstory canopy in Oak and Pine woodlands by 5-15% each treatment.

Canopy Cover Baseline 83% Post Burn 68% Basal Area Baseline 103 Post Burn 79



### Midstory Changes

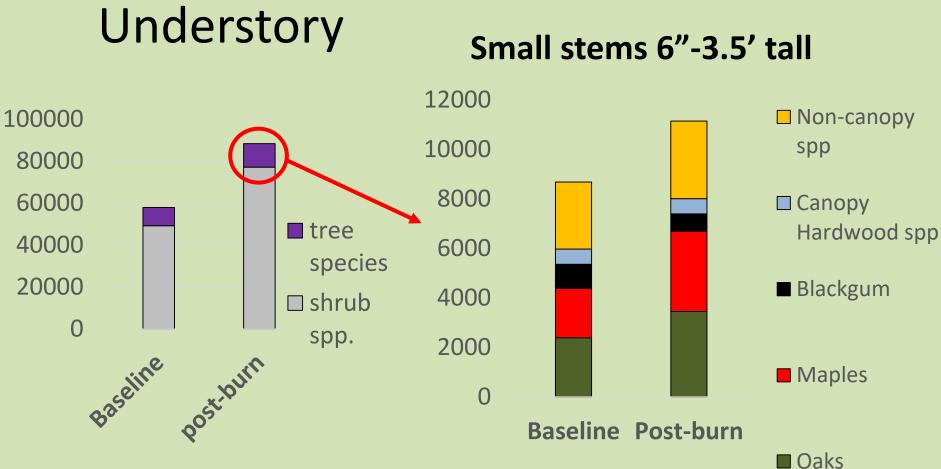
#### Tree and Shrub stem density (1"-4" DBH) decreased by 49% after multiple burns



North Fork Pound Plot 01-05 Baseline

North Fork Pound Plot 01-05 Burn 1 Year 1

## After multiple controlled burns



Maples show statistical increases, oaks do not

### Understory Changes Trees and Shrubs (<1" DBH <3.5" tall)



#### Cubville Plot 03 Burn 1 Year 1



Berries in Porters Mill Unit



Cubville Plot 03 Burn 1 Year 6

## Understory Changes

Cover	Baseline	Post Burn
Forbs	4%	8%
Grasses	0.5%	3%





WSMRP Porters Mill Plot 05-01 08/02/2017 Burn 1 Year 5 North

# Thank you to all who make this work possible!



Oak & Hickory Forests and Woodlands





Pine Forests, Woodlands & Savannahs

