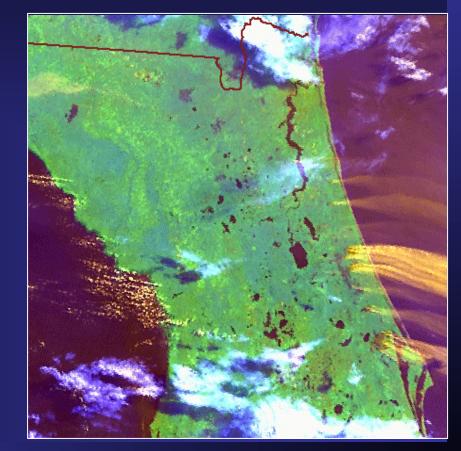
## Fire in the Wildland-Urban Interface

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#### An Interface Problem

Wildland fire is a problem when human lives and resources are threatened.

Population growth in rural areas has exacerbated this natural event.



Florida, July 1998

#### **Ecosystems and fire**

We often focus on longleaf pine and its adaptations to fire,







though many other southern forests also experience fire.

### People at Risk

#### Those who live in and near fire-prone ecosystems are at risk.







#### **A Partial Solution**

#### Prescribed fire offers a management tool that temporarily reduces fuel loads.

But it also brings air quality and safety concerns.



## A Difficult Dilemma

Fire helps maintain healthy southern forests.

Can we learn to live with fire, or do we forfeit these ecosystem



## A Challenging Problem

**Social dimensions** 

**Ecosystem** science We need to protect ecosystem services with good **Natural** resource resource **Economic** management tools, management concerns while we protect human lives in fire-Land use policies one ecosystems.

#### Who lives in the interface?

- Demographics of the interface vary:
  - Retirees
  - Vacation or weekend residents
  - Spanish-speaking residents
  - Urban escapees
- And so do their attitudes about wildland fire

#### **Economic Loss**

- Interface fires are expensive to suppress
  - One complex near Orlando in 1998 totaled
     \$5.2 million in 3 weeks, with 40 homes lost:
    - 28% on machinery, engines
    - 23% on food, lodging, transportation
    - 18% on personnel
    - 15% on air support

Plus timber loss



# Resource Management Options

#### Carefully controlled prescribed fire

- smoke modeling
- media alerts, neighbor alerts
- Goats, sheep and other grazers
- Herbicide
- Thinning, chipping, brush-hogging
- In combination

### **Policy Challenges**

- Private property rights vs. right to burn
- Expectations of public fire protection services and the reality of the interface
- Many different agencies work in the fire arena with different authority
- Investment and insurance incentives
- Resources and technology for building homes economically

### **Policy Solutions**

- Florida's Prescribed Burning Act Training and certification for burners Local ordinances about clearing brush Local practices to inform home buyers of nearby areas maintained with fire Zoning and building guidelines for defensible communities Multi-agency training and
  - communication

#### **Public education strategies**



- Landscape guidelines for defensible space
- Structural modifications for fire protection
- Create
   acceptance of
   prescribed fire

# Involving the media

Demonstration
 burns in
 subdivisions





### Training and capacity building

# Cross training for local fire departments Investments in gear and machinery



### **Comprehensive** Approach

Using information and perspectives from each discipline, we can craft better solutions to wildland-urban interface issues.



