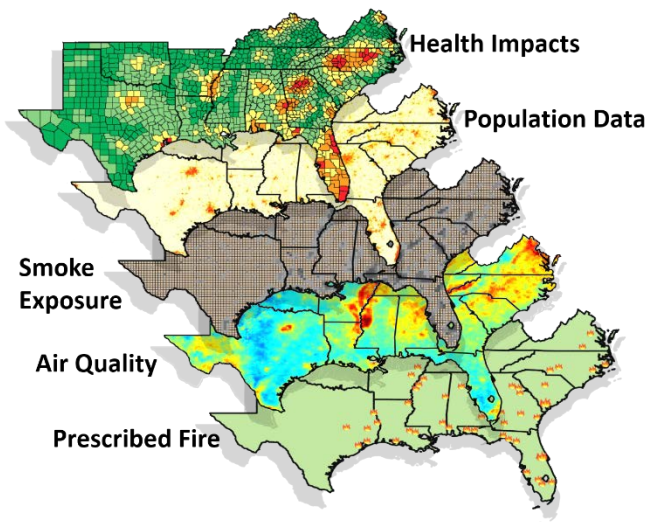# Southern Integrated Prescribed Fire Information System (SIPFIS) Workshop
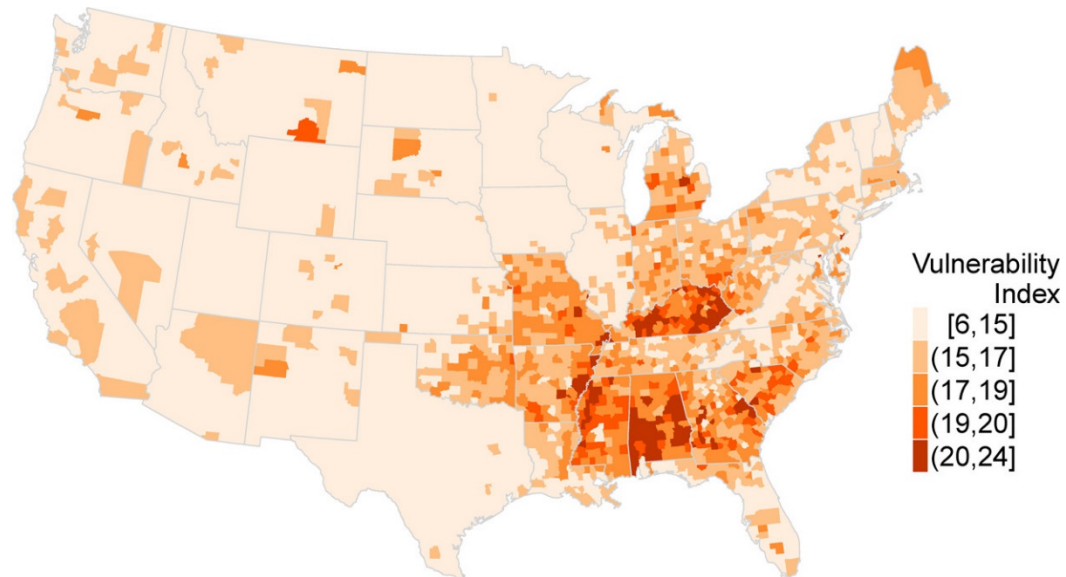
Talat Odman & Fernando Garcia

Georgia Tech

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Wildland fire, air quality and public health

- Wildland fire smoke has specifically been associated with negative health effects by large number of epidemiological studies. [Reid et al., Environ. Health Perspect., 2016]

- Over 40% of Americans are estimated to live in areas with a moderate or high contribution of wildland fires to ambient $PM_{2.5}$ concentrations. [*Rappold et al., Environ. Sci. Technol., 2017*]

- More than 10 million experience unhealthy air quality caused by wildland fires multiple times per year. [*Rappold et al., Environ. Sci. Technol., 2017*]

Vulnerability Index
[6,15]
(15,17]
(17,19]
(19,20]
(20,24]

Community health-vulnerability Index (CHVI) to Health Impacts of Wildland Fire Smoke Exposure.
Rappold et al., Environ. Sci. Technol., 2017

SIPFIS Workshop

- A forum to provide input to the development of a unified prescribed fire record for the South and participate in the design of an integrated information system for fire and air quality data

- The workshop will be most useful for
  - Fire and air quality managers in southern states and federal agencies
  - Scientists interested in smoke and its impacts on air quality and health

Workshop Objectives

- Discuss issues and opportunities in generating a unified prescribed fire database for the South

- Identify data and modeling needs related to prescribed fire and air quality

- Introduce a database and an information system prototypes

- Seek input to guide the development of a community-driven system

- Plan for sustainability of the system beyond 2018

Workshop Agenda

- 8:45   Overview of the SIPFIS project
- 9:00   Prescribed fire data needs related to air quality and health (Panel Discussion)

- 10:30   Demonstration of a common database prototype
- 10:45   A unified prescribed fire record: Issues and opportunities (Panel Discussion)

- 13:00   Demonstration of a prescribed fire-information system prototype
- 13:15   Towards a community information system (Panel Discussion)

- 14:45   Sustainability of a community prescribed fire information system (Open Discussion)
- 15:30   Summary and concluding remarks