PRESCRIBED FIRE IN THE GULF
COASTAL ALABAMA AND MISSISSIPPI

WHAT IS PRESCRIBED FIRE?

Prescribed fire is a controlled, planned fire used for land management, primarily. Most prescribed fires are conducted to remove dead and overgrown vegetation. Benefits of prescribed fire include:

WILDFIRE PREVENTION

ACCESSIBLE FORESTS & INCREASED RECREATION

INVASIVE SPECIES REDUCTION

FIRE TOLERANT PLANTS & WILDLIFE

DID YOU KNOW?

Prescribed fire is also known as a prescribed burn, controlled burn, controlled fire, and planned fire.

FIRE REGULATIONS

Prescribed fire is regulated. To control fire and smoke, specific conditions must be met such as:

WIND SPEED & DIRECTION

TEMPERATURE & HUMIDITY

FUEL BUILD UP & SMOKE SCREENING

Prescribed fires are conducted with warnings to affected community members and supervised by trained, permitted individuals. Trainings and permits are granted by local officials.

BARRIERS TO PRESCRIBED FIRE PRACTICE

1 Government-mandated burn bans restrict prescribed fire implementation due to droughts or other environmental conditions, applying to individual practitioners rather than land managers.

2 Environmental laws and policy, such as air quality regulations, limit prescribed fire use.

3 Historical land management practices avoid prescribed fire due to past wildfire impacts to health and livelihoods.

4 Fire suppression has led to debris build up, making prescribed fire unsafe in some areas and increasing wildfire risk.

Photo Credit: Grand Bay NERR

HOW DOES PRESCRIBED FIRE IMPACT YOU?

NOAA's National Centers for Coastal Ocean Science (NCCOS) social science team partnered with land managers in the coastal counties of Jackson, MS and Mobile and Baldwin, AL to better understand and visualize prescribed fire practices in the area.

MOBILE COUNTY

JACKSON COUNTY

BALDWIN COUNTY

WHERE IS PRESCRIBED FIRE?[1]

Less Prescribed Fire — More Prescribed Fire

114 prescribed fires/ year on average

Unlike smoke from wildfires or other human-caused fires, prescribed fire smoke is managed based on weather conditions to minimize and quickly disperse plumes, reducing impacts to respiratory health and air quality. The map below includes smoke from prescribed fires, wildfires, and other human-caused fire.[2]

Less Smoke — More Smoke

MOBILE

GAUTIER

Prescribed fires and smoke are more likely to affect rural, less populated areas than densely populated ones.

LAND MANAGEMENT USING PRESCRIBED FIRE

1 YEAR BEFORE PRESCRIBED FIRE

1 WEEK AFTER PRESCRIBED FIRE

13 WEEKS AFTER PRESCRIBED FIRE

1+ YEAR AFTER PRESCRIBED FIRE