Thirty-five million acres of wetland forests provide valuable ecosystem services for people living in the US South, including:

- Protection from extreme events
- Recreation, tourism, and aesthetics
- Water filtration and waste treatment
- Food and pollination
- Climate regulation
- Raw materials.

**Wetland forest ecosystem services are worth more than $500 billion per year.** But wetland forests are constantly under siege by external forces, including urban expansion, invasive species, increased demand for timber, conversion to intensively managed plantations or agriculture, pollution, sea-level rise, and the changing climate. Over the next 30 years, how will we protect the valuable services our Southern wetland forests provide? What can we gain if we do the right thing? And what do we stand to lose if we do not invest in our forests?

We investigated how the value of wetland forests in the US South would increase if we protected more land, extended natural riparian buffers, and managed forests more responsibly. Here are the best facts from Mississippi.
Mississippi’s Wetland Forests Are Worth $51 Billion

- Worth could increase up to $4.2 billion by investing in conservation
- Wetland Forest Gem: Noxubee National Wildlife Refuge
- 3.5 million acres of wetland forest, including 127 named swamps and 4,584 named streams in the state

Protection From Extreme Events: Mississippi’s Wetland Forests Provide $15.3 Billion

- Value in protection from extreme events and water flow regulation could increase up to $1.2 billion by investing in conservation
- Five flood events amassing over a billion dollars in damages each since 1980
- Since 1851, there have been 14 major Mississippi river floods, impacting states along the river like Mississippi
- Between 1851 and 2004, 15 hurricanes and 8 major hurricanes (categories 3-5) made landfall on the Mississippi coastline

Aesthetics, Tourism, and Recreation: Mississippi’s Wetland Forests Provide $12.8 billion

- Value in aesthetics and recreation could increase up to $1.1 billion by investing in conservation
- Mississippi had 23 million visitors in 2016, which contributed $6.3 billion in visitor spending and supported 86,600 tourism jobs
- Nearly sixty percent of residents participated in wildlife-related recreation, spending $2.6 billion in 2011

Water Supply and Waste Treatment: Mississippi’s Wetland Forests Provide $11.7 Billion

- Value in water supply and waste treatment could increase up to $1 billion by investing in conservation
- Almost sixty percent of residents rely on public sewer systems. Many public facilities rely on natural infrastructure to reduce costs of waste and water treatment
- Over ten percent of residents rely on private water sources like wells. Residents rely on forests to naturally filter pollutants from their water supply

Food and Pollination: Mississippi’s Wetland Forests Provide $7.4 Billion

- Value in food and pollination could increase up to $630 million by investing in conservation
- Wetland forests provide habitat for pollinators of agricultural crops
- Approximately 700,000 residents in the state hunt or fish
- In 2016, hunters purchased nearly 200,000 deer hunting licenses
- In 2016, hunters harvested nearly 250,000 ducks and geese within the state
Regulating Services: Mississippi’s Wetland Forests Provide $3.76 Billion

- Value in climate regulation, air quality, soil formation, and erosion control could increase up to $143 million by investing in conservation
- There are an estimated 141 million megagrams of carbon stored in the state’s wetland forests, and continual carbon storage reduces the worst impacts of climate change

Raw Materials: Mississippi’s Wetland Forests Provide $129 Million

- In 2011, there were 63 forest product mills (e.g., pulp and timber) employing 7,592 people in the state\(^\text{10}\)
- Wetland forests currently provide raw materials worth $129 million in ecosystem services value, and investing in conservation could increase the worth to $210 million

REFERENCES