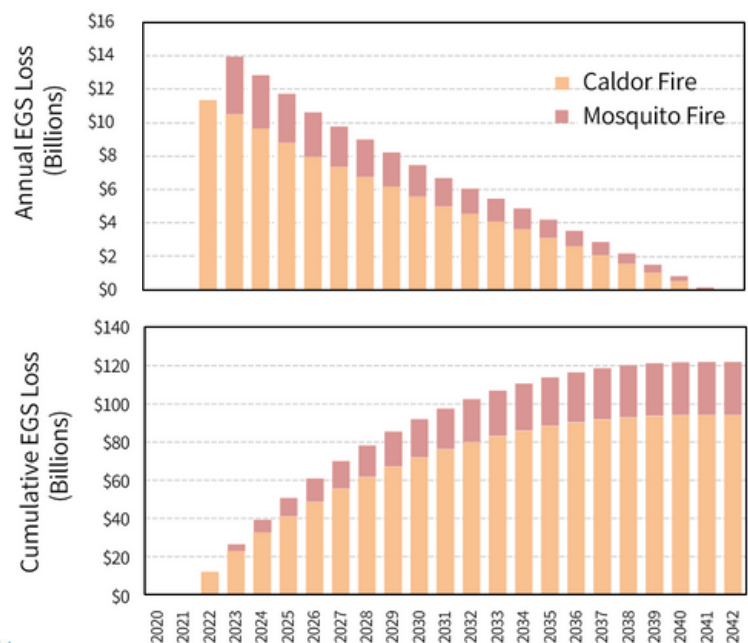


Beyond Property Damages from Wildfires

Natural Capital Damages from the Caldor and Mosquito Fires

Recent wildfires created \$14.7 billion in damages to the ecosystem goods and services (EGS) in the headwaters region of the American and Cosumnes Rivers watersheds. Before the Caldor and Mosquito fires, these watersheds had a natural capital asset value between \$731 billion and \$1.6 trillion based on 100-years of productivity. Natural capital damages occurred due to the loss and degradation of ecosystems from the wildfires and the economic impacts from the associated increase in carbon emissions. These devastating consequences reach far beyond these watersheds because they are critical headwaters for statewide water supply that fuels the fifth largest economy in the world.

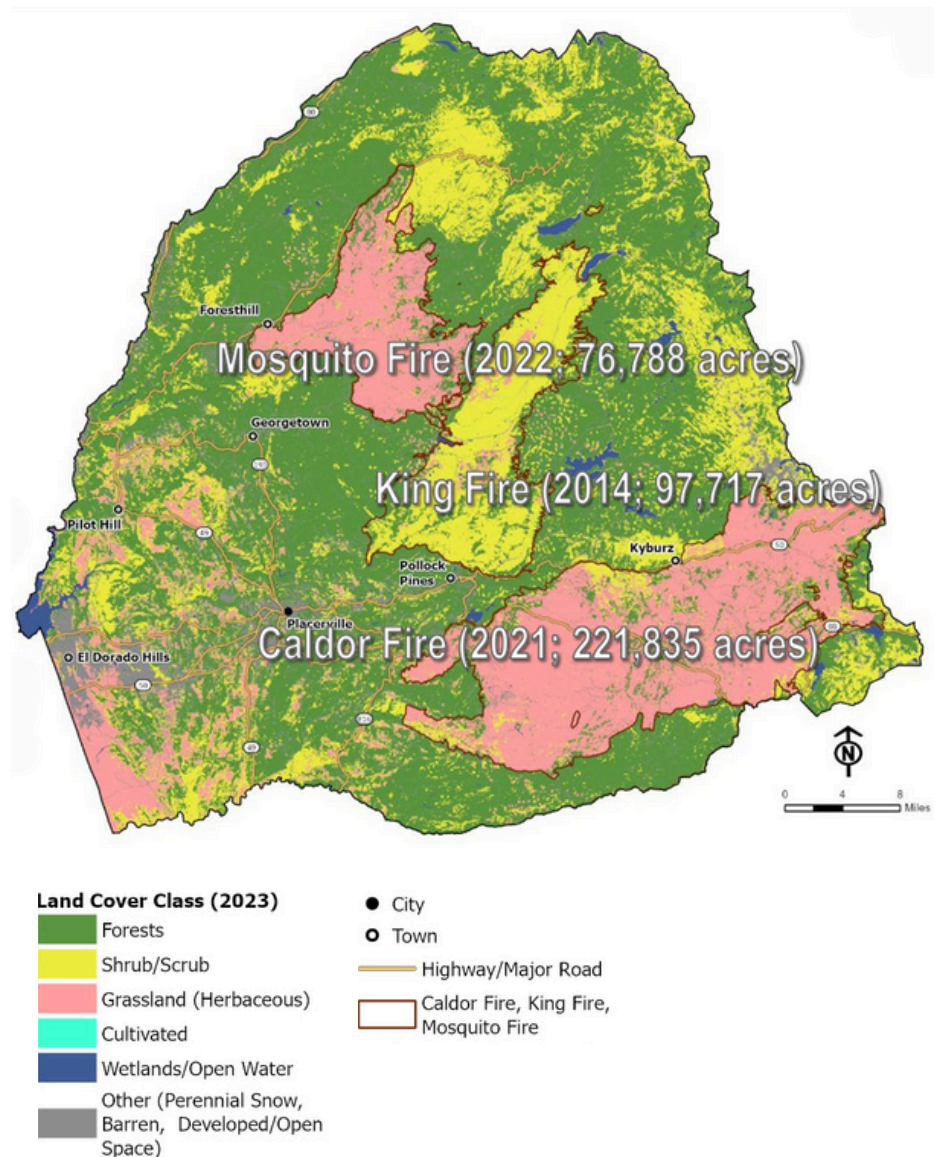


The combined damaged areas of the 2022 Mosquito and 2021 Caldor fires encompasses over 285,000 acres (nearly 20% of the watersheds). These two fires caused an estimated total of \$14.7 billion in losses to ecosystem goods and services (EGS) benefits assuming an optimistic 20-year recovery period. This includes over \$12.1 billion in long-term EGS losses and nearly \$2.6 billion in damages related to carbon dioxide emissions from the wildfires.

Source: Soares, J., Batker, D., and Batker-Pritzker, A. 2025. Natural Capital Damages from the Mosquito and Caldor Fires. Batker Consulting, Tacoma, WA. Prepared for El Dorado Water Agency.

The Mosquito and Caldor fires drastically changed the land cover in the headwaters region of the American and Cosumnes Rivers watersheds, which is still recovering from damage caused by the 2014 King fire.

After these recent wildfires, what was once predominately forests has become grasslands, significantly reducing the natural capital which society relies on. Fire-damaged areas need a minimum of 20 years to recover assuming proper attention for recovery is given and adequate mitigation is implemented to prevent repeated damages.



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