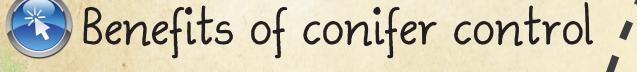


## Conifer Conifer Lncroachment

Sage grouse breeding habitat is lost to invading junipers when trees exceed 4% canopy cover. Focused tree removal prevents conversion of sagebrush steppe to conifer woodlands and benefits sage grouse populations.



- . Maintaining native understory plants.
- 2. Reducing risk of large and severe wildfires.
- 3. Improving habitat for declining species.
  - 4 Reducing soil erosion and conserving soil water.
    - 5 Increasing ecosystem resilience to fire and resistance to cheatgrass.

know that trees catch the snow? Removing encroaching conifer stands from sagebrush ecosystems helps keep snow on the ground longer during the spring. This allows water to seep slowly into the ground to better sustain plants, streams, and wildlife during the West's hot, dry summer.

The Sage Grouse Initiative is a partnership-based, science-driven effort that uses

voluntary incentives to proactively conserve America's western rangelands, wildlife,

and rural way of life. This initiative is part of Working Lands For Wildlife, which is



led by USDA's Natural Resources Conservation Service.

nrcs.usda.gov/wildlife sagegrouseinitiative.com

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Studies have shown that conservation efforts for sage grouse also help 350

Wet "mesic"

habitat, or places

where water meets

land comprise less than 2% of the

entire landscape in the

West. Protecting and

restoring these "emerald

islands" in the desert

benefits livestock ranching and

wildlife, including sage grouse.

Conservation measures set in place for sage grouse significantly increase the protection for mule deer migration and winter habitat.

Easements protect large working lands

agreements that provide a

and preserve habitat.

from subdivision development in sage

grouse core areas by using voluntary

financial boost for ranchers

conservation efforts for sage grouse also help 350 other species of plants, invertebrates, amphibians, reptiles, birds and mammals inhabiting the sagebrush sea, like mule deer and songbirds.

Songbirds like the Brewer's sparrow, sagebrush sparrow and sage thrasher are 13-19% more abundant near large leks,



Conifers provide perches for predators.



The spread of invasive annual grasses, like cheatgrass and medusahead, are linked to unwanted wildfires. Invasive grasses are highly flammable and dry out earlier than native plants, leading to more frequent, hotter fires. Once sagebrush habitat burns in a megafire, it's hard to restore, leaving noxious weeds that degrade rangelands and wildlife habitat.

These invasive grasses replace the sagebrush sea's diverse, native plants - like sagebrush, wildflowers, and bunchgrasses - with a monoculture of weeds. That's bad for birds and herds, which rely on nutritious, native perennial plants.

Sage grouse can collide with livestock fences when flying low over sagebrush. When grouse fly into their breeding grounds, or the dim predawn light washes it dissigniff to avoid sing or the dim predawn light washes it dissigniff to avoid sing the dim predawn light washes it dissigniff.

"leks," the dim predawn light makes it difficult to avoid wires. By placing markers on fence wires, ranchers are their part to reduce the potential for fence collision by

Rest rotation grazing boosts the abundance of arthropods, like spiders and pattition or deferred pastures from grazing host the most anthropods important for rutrition.

Conservation on working western landscapes restores sagebrush communities where sage grouse and other wildlife share the same extensive home range, and helps ranchers pass on their legacy and rural way of life.

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