

Conservation Ranching: This term describes most modern operations because long-term productivity depends on keeping soil in place, maintaining grass cover, and retaining water in the system. This map shows a few examples, among the many in the Sentinel area, of places that are being actively improved through water retention structures, grassland restoration, wildlife accommodations, and regular monitoring of resource conditions, frequently with the help of partners. Many properties have permanent protection as ranch land through conservation easements.

Fire: For centuries, sky island grasslands, woodlands, and forests burned every 5 to 20 years. Frequent fire kept areas open and grassy. This arrangement tamed fire behavior—understory burned but trees survived or resprouted. A century of very little fire led to over-dense woods, and managers now work to reverse that trend via thinning and prescribed fire projects.

Grasslands: Southeastern Arizona's grasslands are productive and rich ecosystems. Drought, lack of fire, invasive species, and overgrazing have degraded some grasslands, but modern management helps these areas heal. Erosion control holds soil, shrub removal and fire reduce woody species, creative grazing prevents over-utilization, and attention to weeds slows their spread.

Research: The Sentinel Landscape hosts three research sites that dedicate 50,000 acres to learning about the area's natural resources. Researchers from all over the world work at these sites, which also have value as climate monitoring stations and open space. Scientists also study grasslands, wildlife, water, fire, and livestock production practices (and much more) on other Sentinel private and public lands, including Fort Huachuca.

Water: Keeping precious water available for people, natural ecosystems, and livestock is key to the health of the Sentinel Landscape. People are conserving water in developed areas, and many partnerships monitor and maintain water in streams, springs, and the aquifer. Ranchers are providing water for wildlife as they ensure supplies for livestock. Other projects improve watersheds to slow runoff and allow local infiltration of storm water.

Wildlife: Loss of habitat has reduced wildlife numbers all over the world. The Sentinel Landscape contains large patches of habitat for important species. Keeping the patches connected helps all kinds of animals, including pollinators, have enough space to feed and breed. Preserving wetlands and removing invasive species have increased numbers of rare aquatic species. Agreements between wildlife groups and landowners aid coexistence of wildlife, humans, and livestock.

Map Key

Private Lands: Non-urban parcels vary from small-acreage residential holdings to large ranches, including some with land under permanent conservation status.

Public Lands: USDA Forest Service and Bureau of Land Management (BLM) balance resource protection and activities such as recreation, grazing, mining, and energy development on lands that belong to the citizens of the U.S.

State Trust Lands: These lands are held in trust for beneficiaries, chiefly K-12 education. The Arizona State Land Department serves as agent and fiduciary. Trust land is not public land; it is sold and leased under principles of highest and best use. Undeveloped State Lands serve as open space and wildlife habitat.

Urban

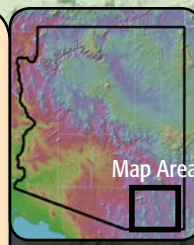
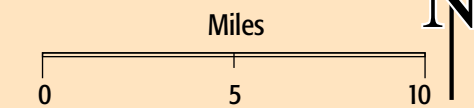
Wildlife Corridors: Projects protect wildlife travel routes between mountain ranges.

Arizona Trail: The first 115 miles of the magnificent trail that crosses the entire state illustrates the Sentinel Landscape's recreational riches. There are hundreds more miles of hiking trails plus places for hunting, biking, birdwatching and other activities.

Buffalo Soldier Electronic Testing Range Boundary

Major Streams

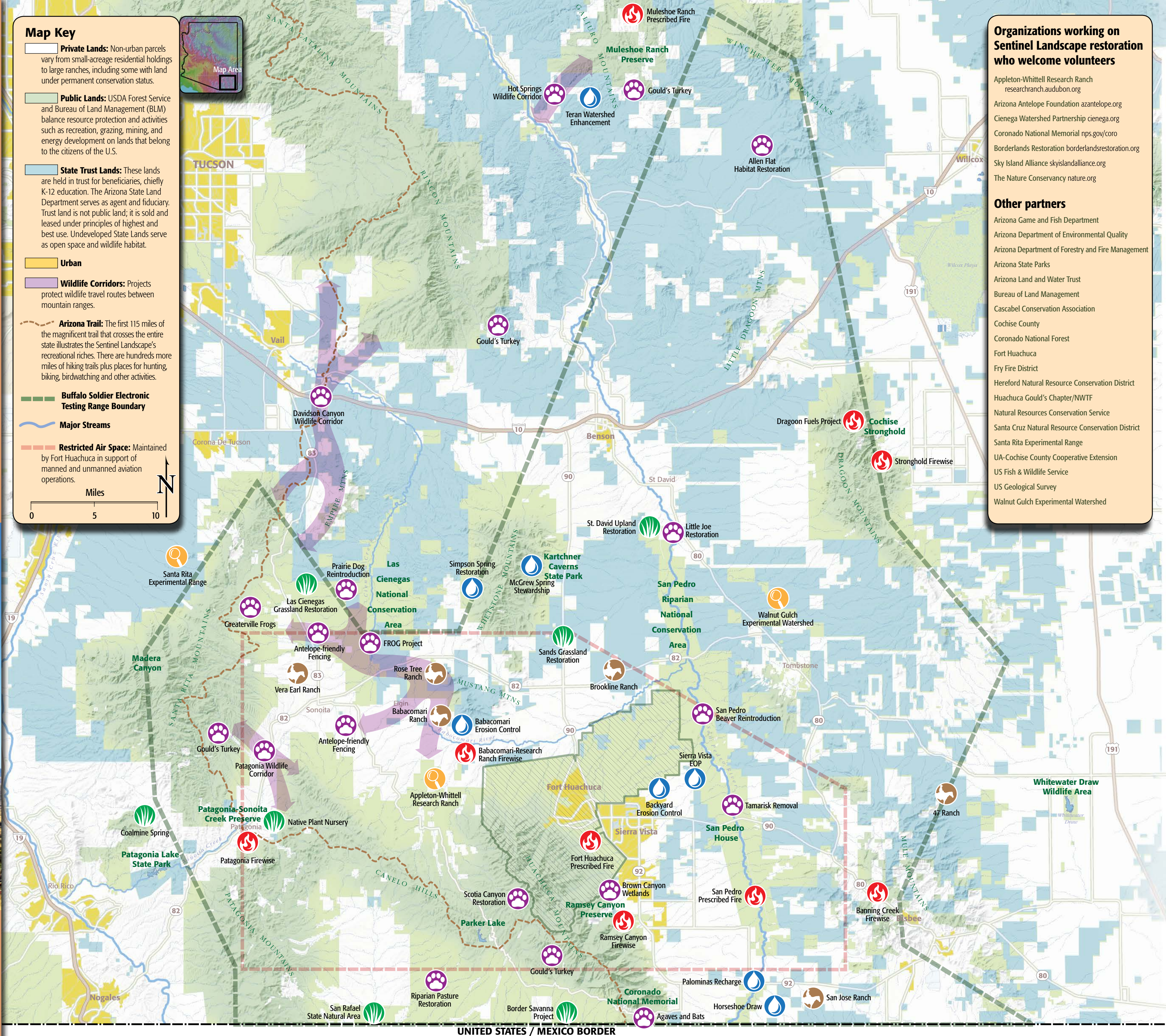
Restricted Air Space: Maintained by Fort Huachuca in support of manned and unmanned aviation operations.



Fort Huachuca Sentinel Landscape Restoration Partnership



The Sentinel Landscape Restoration Partnership exists to facilitate cooperative projects that improve water quality and quantity, range and forest conditions, wildlife habitat, the status of rare species, and other vital features of the working and natural lands within the Landscape and nearby ecologically connected areas. This map highlights efforts that meet these goals as well as help preserve open spaces for the testing and training missions of Fort Huachuca. The descriptions below outline restoration challenges that these projects are meeting. Mapped projects are just a sampling among many others taking place.



Organizations working on Sentinel Landscape restoration who welcome volunteers

- Appleton-Whittell Research Ranch researchranch.audubon.org
- Arizona Antelope Foundation azantelope.org
- Cienega Watershed Partnership cienega.org
- Coronado National Memorial nps.gov/coro
- Borderlands Restoration borderlandsrestoration.org
- Sky Island Alliance skyislandalliance.org
- The Nature Conservancy nature.org

Other partners

- Arizona Game and Fish Department
- Arizona Department of Environmental Quality
- Arizona Department of Forestry and Fire Management
- Arizona State Parks
- Arizona Land and Water Trust
- Bureau of Land Management
- Cascabel Conservation Association
- Cochise County
- Coronado National Forest
- Fort Huachuca
- Fry Fire District
- Hereford Natural Resource Conservation District
- Huachuca Gould's Chapter/NWTF
- Natural Resources Conservation Service
- Santa Cruz Natural Resource Conservation District
- Santa Rita Experimental Range
- UA-Cochise County Cooperative Extension
- US Fish & Wildlife Service
- US Geological Survey
- Walnut Gulch Experimental Watershed

UNITED STATES / MEXICO BORDER

