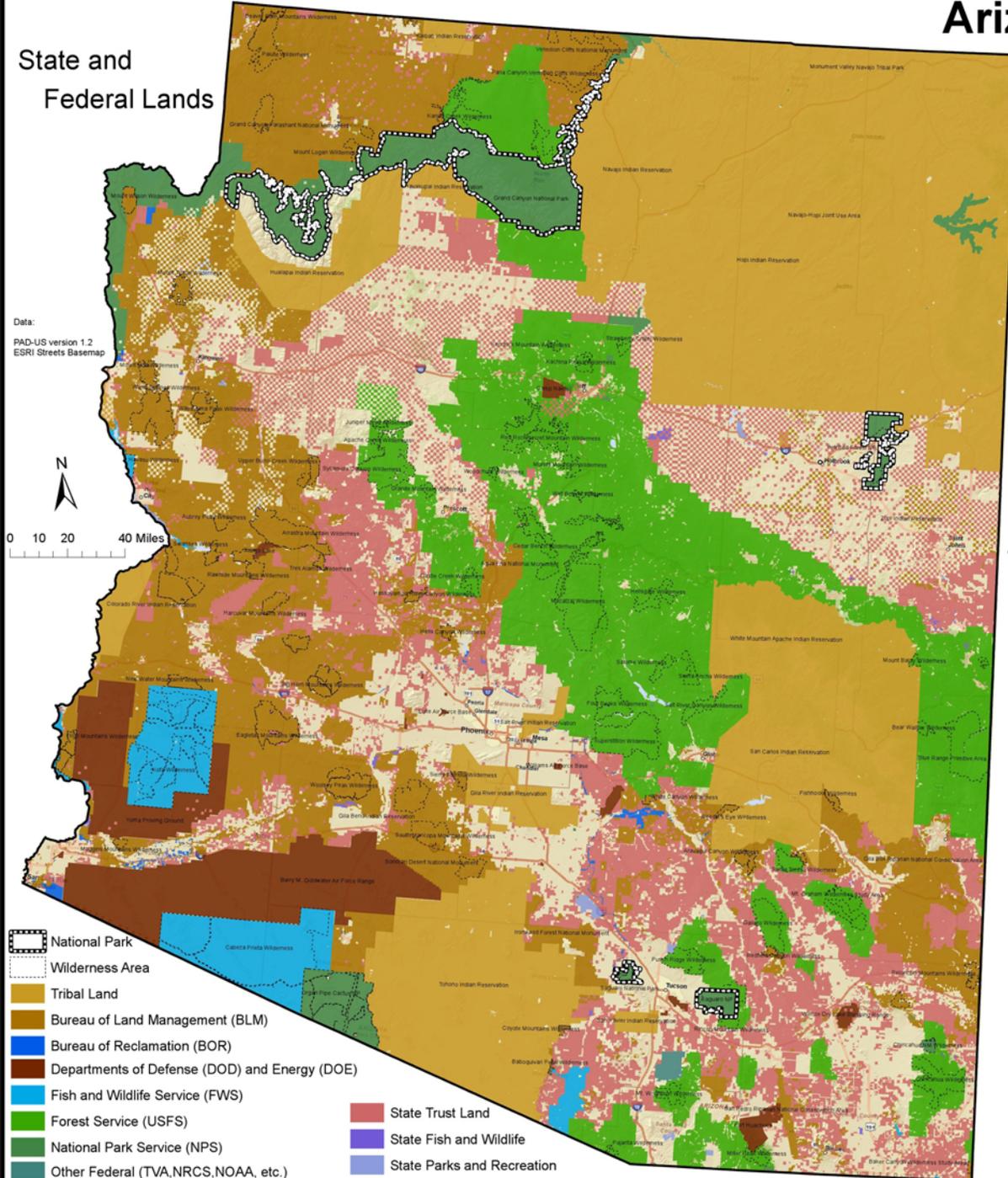


# Arizona

## Gap Analysis for Lark Bunting *Calamospiza melanocorys*

### State and Federal Lands

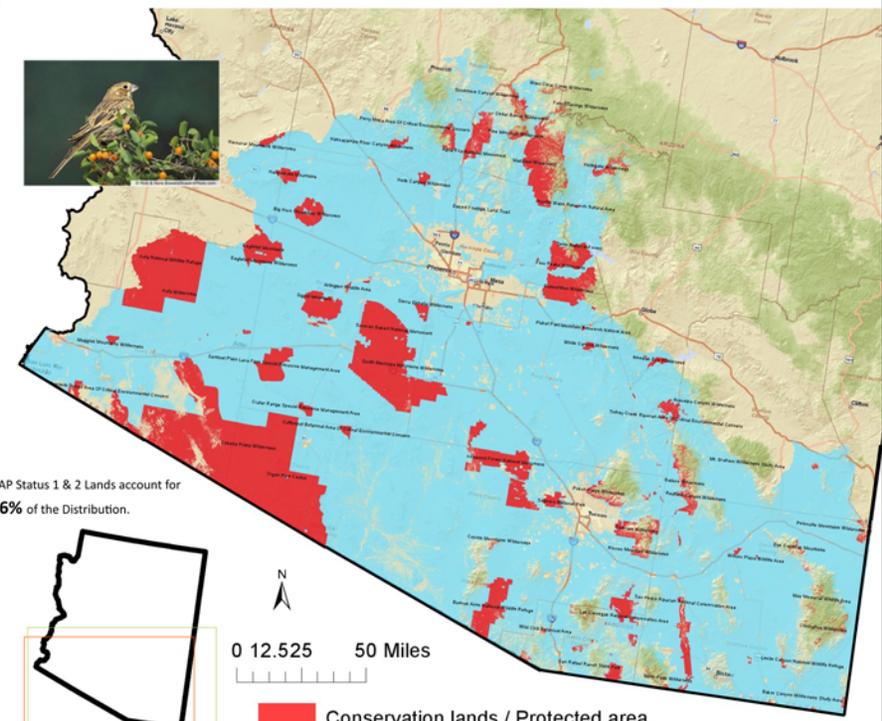


Data:  
PAD-US version 1.2  
ESRI Streets Basemap

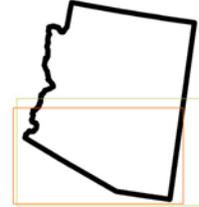


0 10 20 40 Miles

- National Park
- Wilderness Area
- Tribal Land
- Bureau of Land Management (BLM)
- Bureau of Reclamation (BOR)
- Departments of Defense (DOD) and Energy (DOE)
- Fish and Wildlife Service (FWS)
- Forest Service (USFS)
- National Park Service (NPS)
- Other Federal (TVA, NRCS, NOAA, etc.)
- State Trust Land
- State Fish and Wildlife
- State Parks and Recreation



GAP Status 1 & 2 Lands account for  
**16%** of the Distribution.



0 12.525 50 Miles

- Conservation lands / Protected area
- Predicted distribution

Layers of mapped data can be put together to address particular questions. A process used in conservation biology is called gap analysis. The acronym GAP refers to the Gap Analysis Program, a U.S. Geological Survey program that uses gap analysis to identify species not adequately represented on existing protected areas. The Lark Bunting is such a species. It depends on prairie habitat for its breeding grounds, but much of its habitat has been modified by humans. Populations of the lark bunting have been declining over the last 40 years by an average of 1.6% per year. It is listed as a species of greatest conservation concern (SGCN) by many states.

For the Lark Bunting and other species, gap analysis is a 2-step process. First, input data on habitat required or preferred by the Lark Bunting is used to predict its distribution (blue area). Second, the Lark Bunting's distribution is compared to a map layer of protected areas. Combining these 2 map layers, shows that 16% of the Lark Bunting predicted distribution is protected within Arizona (red area), however, only 2.6% is protected over the entire US distribution.

This type of information is valuable for decisions about what lands should be protected to prevent future losses of biodiversity.



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