# CENTRAL SHORTGRASS PRAIRIE SPECIES AT RISK CONSERVATION PROJECT

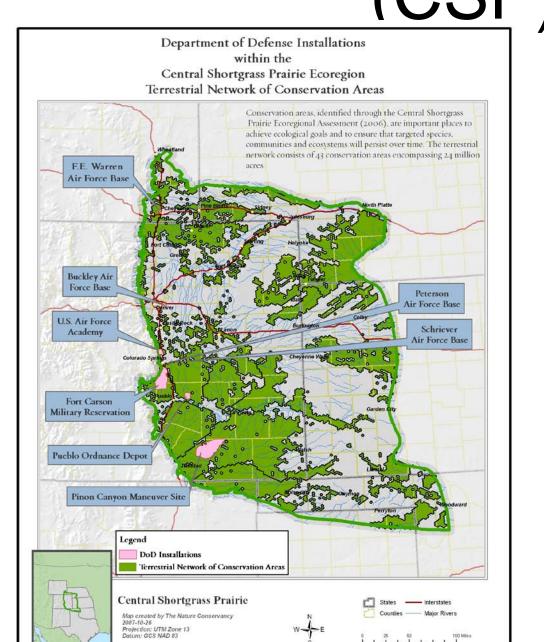
Beh, G., B. Neely, S. Kettler, L. Grunau, R. Rondeau, S. Gallagher, T. Toombs, E. Odell, K. Decker, and L. Hatzenbuehler. 2009. CSP Species at Risk Conservation Innovation and Implementation Project. Shortgrass Prairie Partnership. Funded by DoD Legacy Program (Project #08-214).

#### Summary

The Shortgrass Prairie Partnership (SPP), a group of public agencies and private organizations, conducted a conservation assessment of the Central Shortgrass Prairie (CSP) Ecoregion in 2006, with funding by the DoD Legacy Program and support from the US Army/Fort Carson. With DoD Phase II funding, the SPP developed a Memorandum of Understanding and a strategic plan, and conducted research on species at risk

With DoD 2008 funding, the SPP assessed 20 SAR and developed a program to facilitate collaborative conservation to offset/mitigate impacts to those species. This project was designed to help the DoD proactively improve the conservation status of SAR, reducing the need for future listings and potential conflicts that interfere with military readiness and range sustainability.

# Central Shortgrass Prairie



#### 56 million acres

- 7 states: CO, KS,
- NE, WY, OK, NM, TX
- 92% private
- 5% state
- 3% federal
- 8 military installations encompassing 500,000 acres

### Project Goal and Objectives

Goal: develop a conservation program to facilitate proactive, voluntary, collaborative conservation of multiple species at risk in the CSP.

#### Objectives

- 1. Identify SAR that occur on DoD lands.
- 2. Conduct an impacts assessment of the SAR and habitats.
- 3. Identify SAR priority habitats to determine potential areas for off-site conservation projects.
- 4. Develop SAR-specific scorecards to measure progress over time.
- 5. Evaluate conservation tools and develop a framework for a conservation program

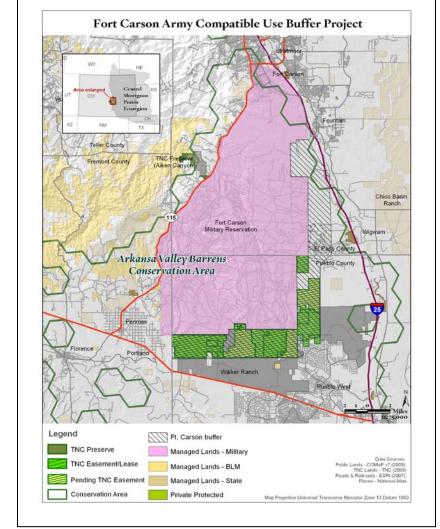
#### DoD Benefits

- . Provides DoD with tools/framework for collaboratively improving the conservation status of priority SAR across the CSP by offsetting or mitigating impacts, helping to avoid future listings.
- 2. Offers reduced need for regulatory compliance, but if regulatory compliance is needed, provides roadmap for assisting with compliance offsite in a REPI framework.
- 3. Provides SAR maps/scorecard, set of supportive partners, helping DoD maintain flexibility to meet DoD training mission.

#### Fort Carson Army Compatible Use Buffer Project

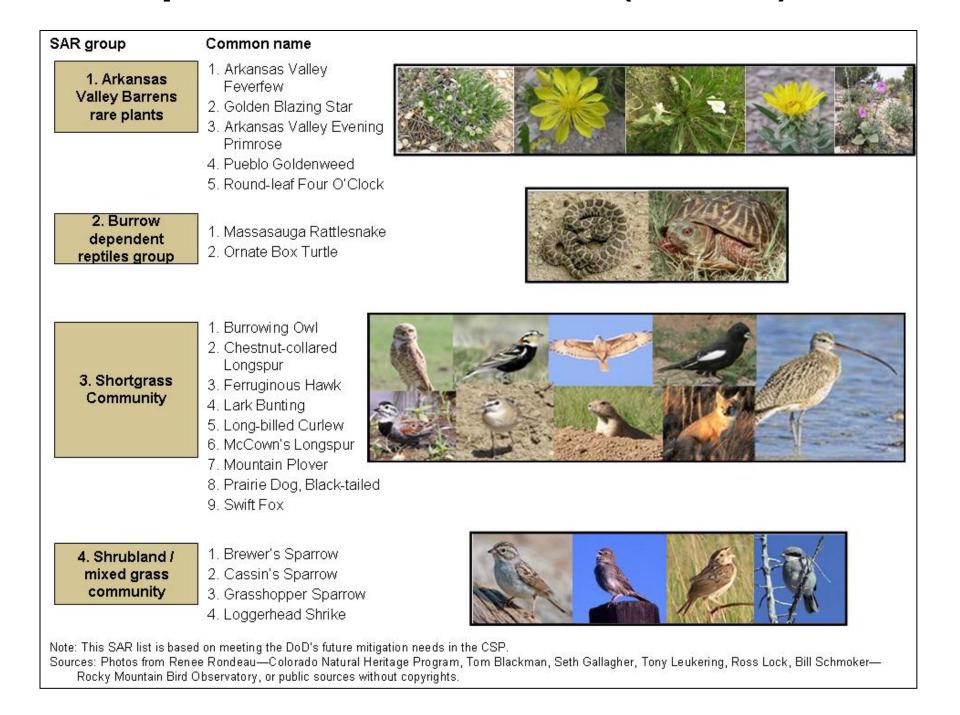






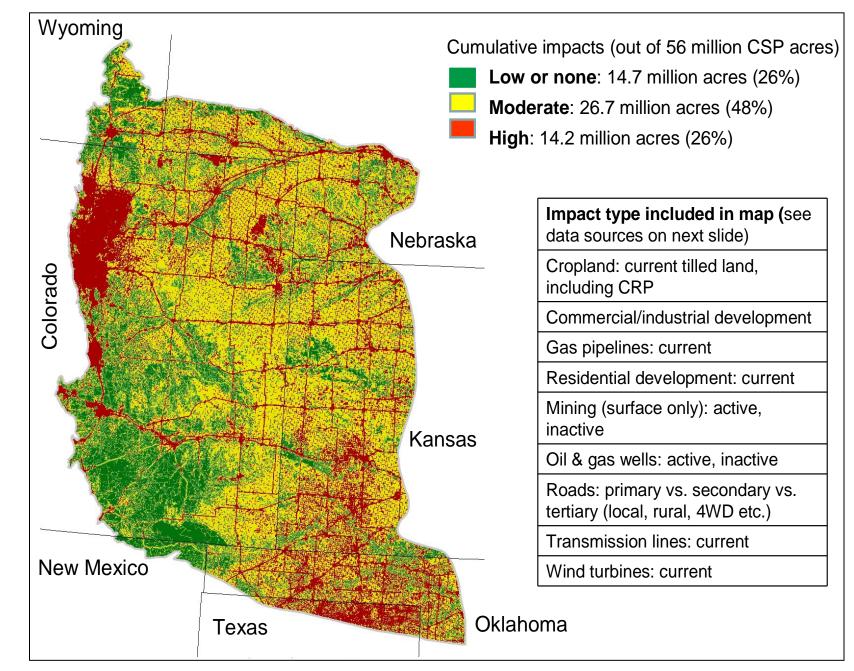
This project builds off of the TNC-DoD partnership to address encroachment problems through conservation easements to protect valued training areas and imperiled plants near Fort Carson.

#### 1. Species at Risk (SAR)



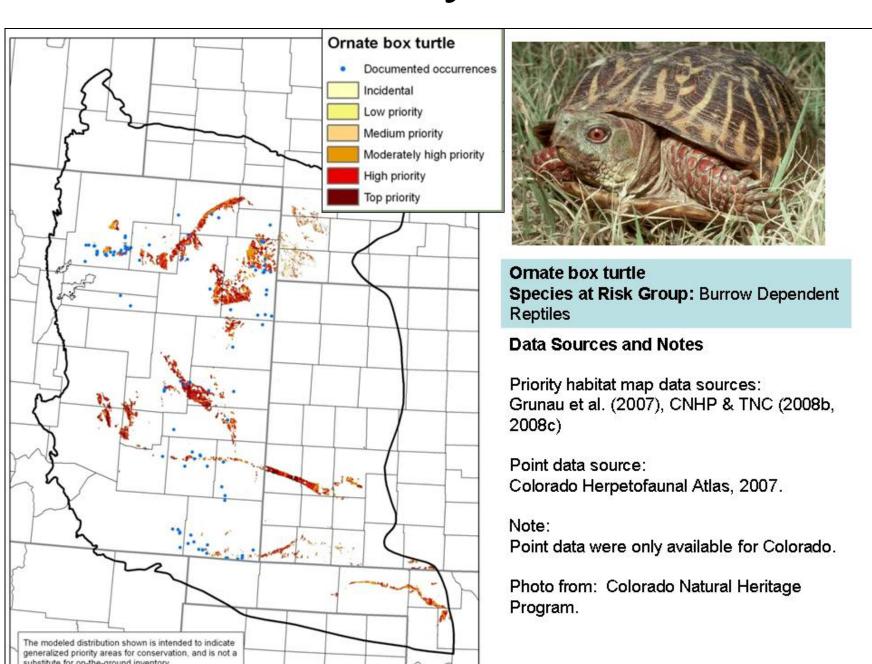
Four SAR groups with 20 species are highest priority for conservation in the Central Shortgrass Prairie.

## 2. Cumulative Impacts



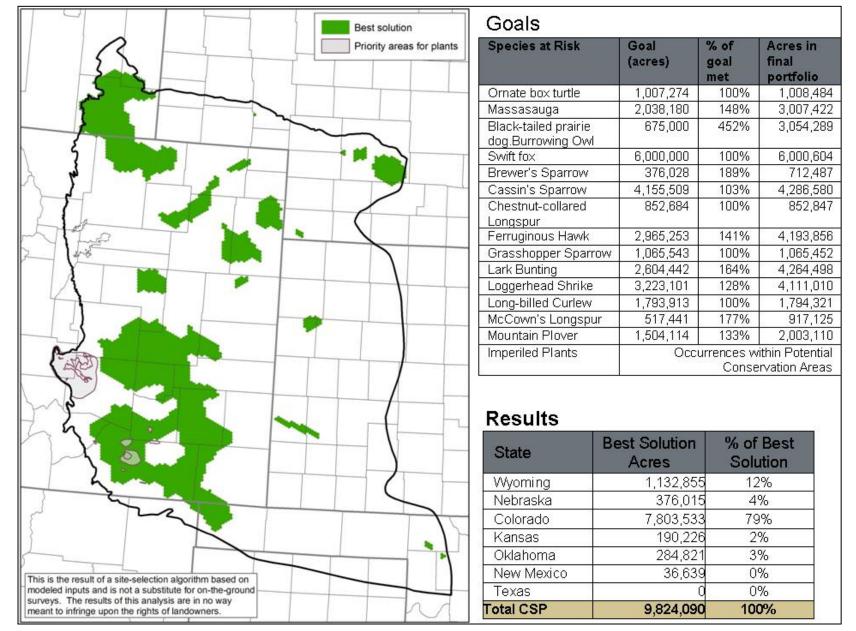
Cumulative negative impacts affecting SAR within the Central Shortgrass Prairie.

#### 3. SAR Priority Habitats



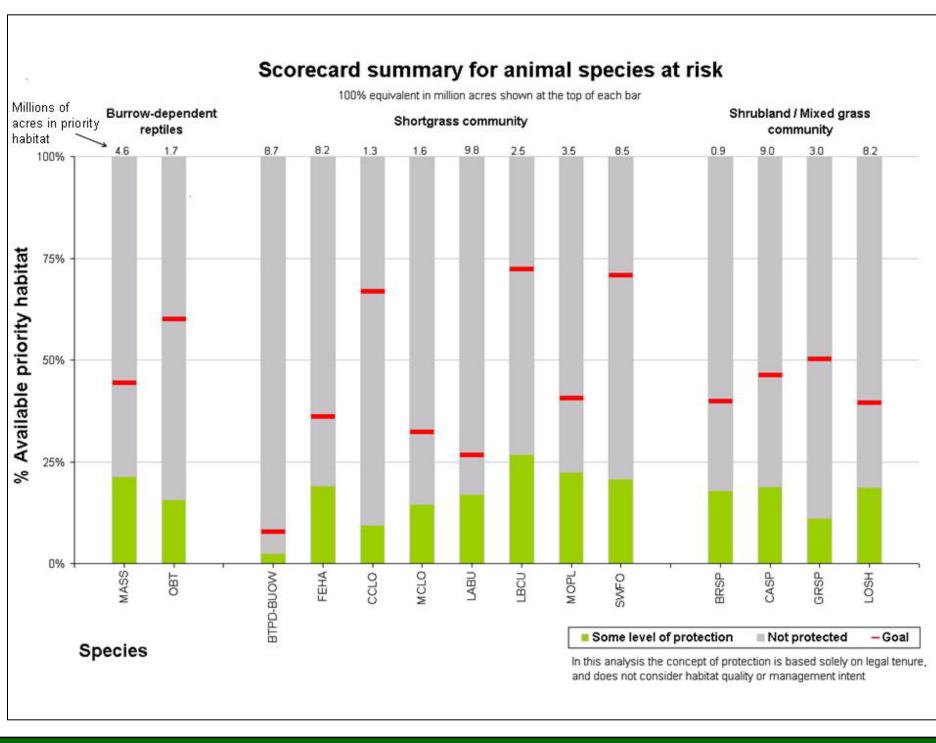
Six habitat classes ranging from optimal habitat with few impacts to degraded habitat with many impacts.

## 4. Priority Habitats for 20 SAR

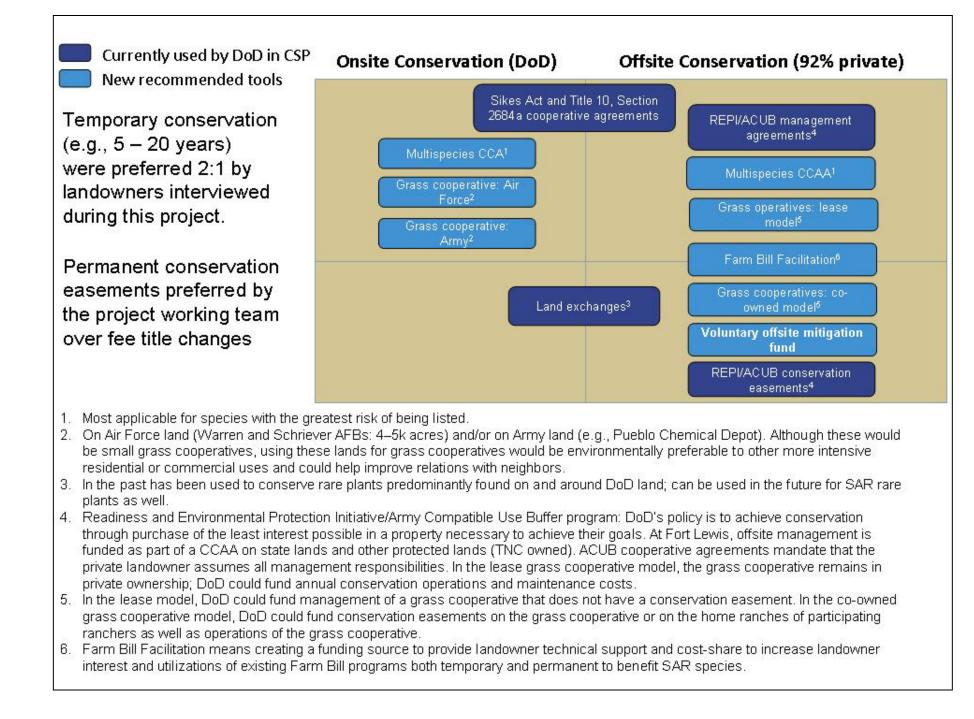


Overall priority habitat map for all SAR estimating the least amount of area (9.8 million acres) to meet conservation goals for SAR (produced using SITES site-selection tool).

# 5. Scorecard Summary for SAR



- Vertical bars show the total available priority habitat for each species, defined as the top 3 habitat classes.
- Green portions represent the proportion of available habitat with some level of legal protection.
- Red lines represent SAR conservation goals.



#### 6. Recommended Conservation Tools

### Next Steps

- 1. Agree on tools to implement with partners and launch implementation teams around each tool selected.
- 2. Adopt SAR scorecard to monitor progress and measure success.
- 3. Develop a mitigation accounting framework/system to evaluate impacts and determine offset needs for SAR on DoD lands.
- 4. Assess impacts of climate change on SAR and their habitats, and develop adaptation strategies.

The Shortgrass Prairie Partnership provides agencies, non-profit organizations, landowners, & land managers the opportunity to collaboratively work together to conserve the shortgrass prairie while promoting economically productive landscapes that sustain local communities.

We thank the DoD Legacy Natural Resource Management Program, US Army/Ft. Carson DECAM, & Army Environmental Command for funding &/or support of this project.

















Poster by Betsy Neely (TNC)