

# 9.8 Million Acres

Our top priority is conserving resilient and intact working rangelands.

To achieve this outcome we must halt threats before they begin,
reinstate fire back into the system, and work at scales that matter.



Photo: Shutterstock/Max Voran



Photo: Dirac Twidwell

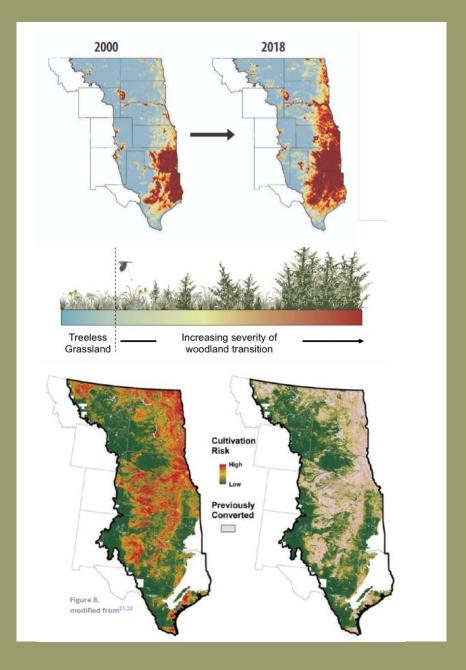


Natural Resources Conservation Service

nrcs.usda.gov

Photo: Jeremy Roberts/Conservation Media





**United States Department of Agriculture** 

#### **Kansas NRCS**

**Great Plains Grassland Initiative** (GPGI)





RANCHER DRIVEN

**SCIENCE INFORMED** 

**AGENCY SUPPORTED** 

Natural Resources Conservation Service

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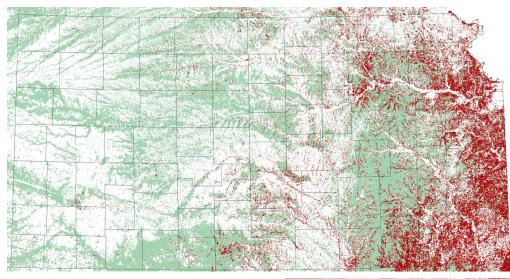
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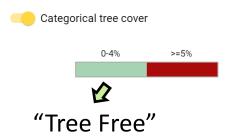


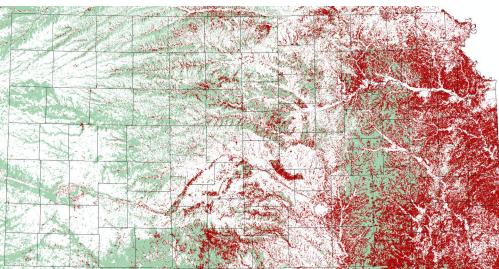






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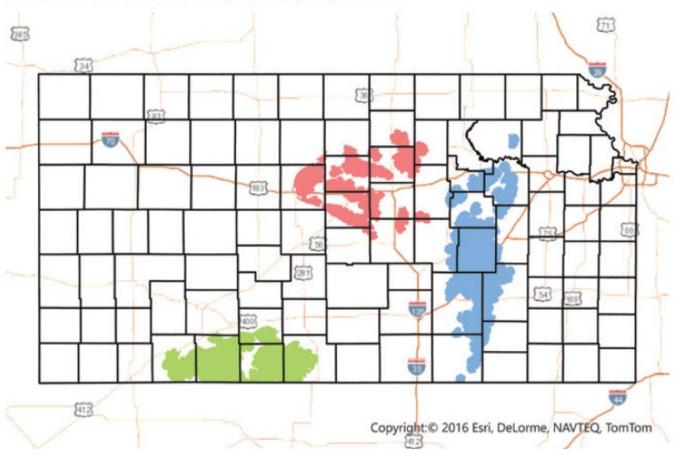


2019





#### **Kansas GPGI Core Grassland Areas**



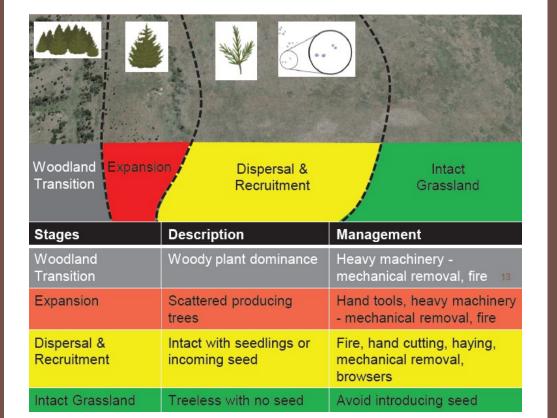


### **Prevention / Avoidance / Monitoring**

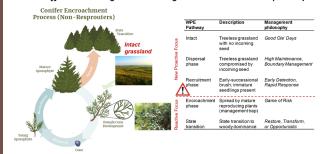
Pest Management Conservation System

• Identify and Implement Prevention, Avoidance, and Monitoring (PAM)





#### More Effective Management: Manage the Invasion Process (Earlier)

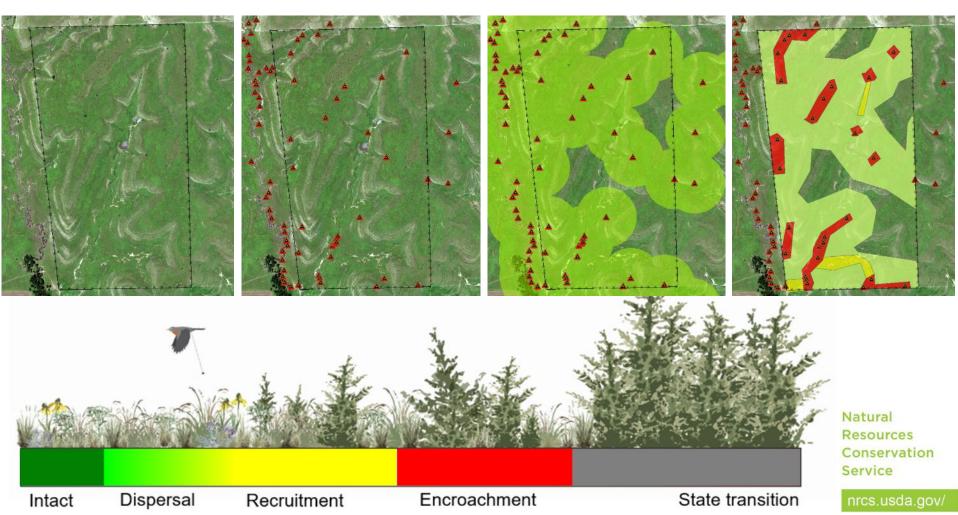


This framework aims to strategically remove seed sources and reinstate prescribed fires to reverse woodland expansion. This integrated approach removes the source of risk and prevents the future proliferation of seeds and saplings.

## **Woody Plant Encroachment Phases**



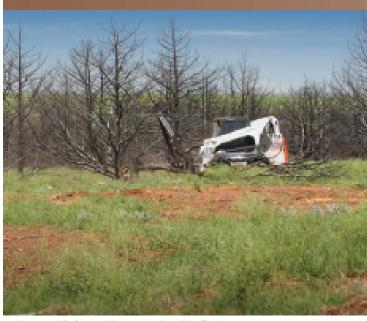
Baseline Inventory and Continued Monitoring - Mapping



## **Science Suggested Practices**

Practice	Woody encroachment stages					Components of risk	
	Intact	Dispersal	Recruitment	Encroachment	State transition	Sensitivity	Exposure
Prescribed fire		X	X	X	X	<b>\</b>	↓
Hand tool removal			X	X			$\downarrow$
Haying			X				$\downarrow$
Goats			X			$\downarrow$	
Mechanical				X	X		$\downarrow$
Grazing management						$\uparrow \downarrow$	





to: Jeremy Roberts/Conservation Media

#### ANTICIPATED OUTCOMES

Create a network of large-scale demonstration sites. Few proven examples exist to demonstrate how to conserve large-scale rangelands threatened by woody expansion. A series of demonstration sites are needed across the biome to show how to sustainably manage the remaining grassland regions experiencing woody expansion.<sup>15</sup>

- Prevent loss of rancher income. Grassland biomass declines 75% once redcedar dominates a site, 10 which reduces forage available for livestock and rancher profitability. Management that prevents woodland expansion sustains ranch income and livestock carrying capacity.
- Maintain populations of grassland wildlife. Populations of game and nongame species are negatively impacted by transitions to Eastern redcedar woodlands.<sup>16-18</sup> Restored grasslands provide the diverse and intact habitat needed for wildlife to flourish.
- Reduce wildfire danger. Wildfire suppression tactics become ineffective when grasslands transition to redcedar woodlands. 19 Preventing volatile fuels from redcedar expansion reduces wildfire intensity to aid firefighter suppression capabilities.
- Prevent core area transitions. Large-scale monitoring indicates that management can maintain and even expand the size of grasslands in priority landscapes.<sup>20</sup>



# CONSERVING RESILIENT RANGELANDS FOR PEOPLE AND WILDLIFE

NATURAL RESOURCES CONSERVATION SERVICE
KANSAS GREAT PLAINS GRASSLAND INITIATIVE

#### **Discussion**



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