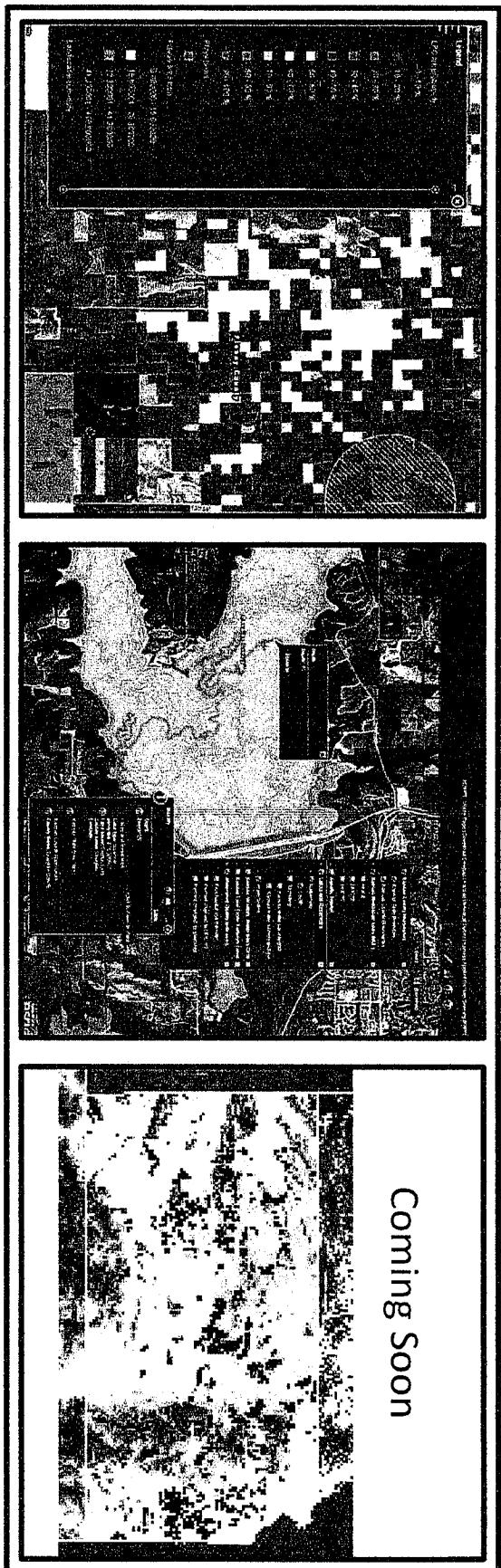


Mike Houts

# Making Kansas Natural Resource Data Available Through Online Mapping Services



**NRP**  
Natural Resource Planner  
  
**KARP**  
Kansas Aquatic  
Resource Planner  
  
**WGA CHAT**  
Crucial Habitat  
Assessment Tool

# Natural Resource Planner created by:

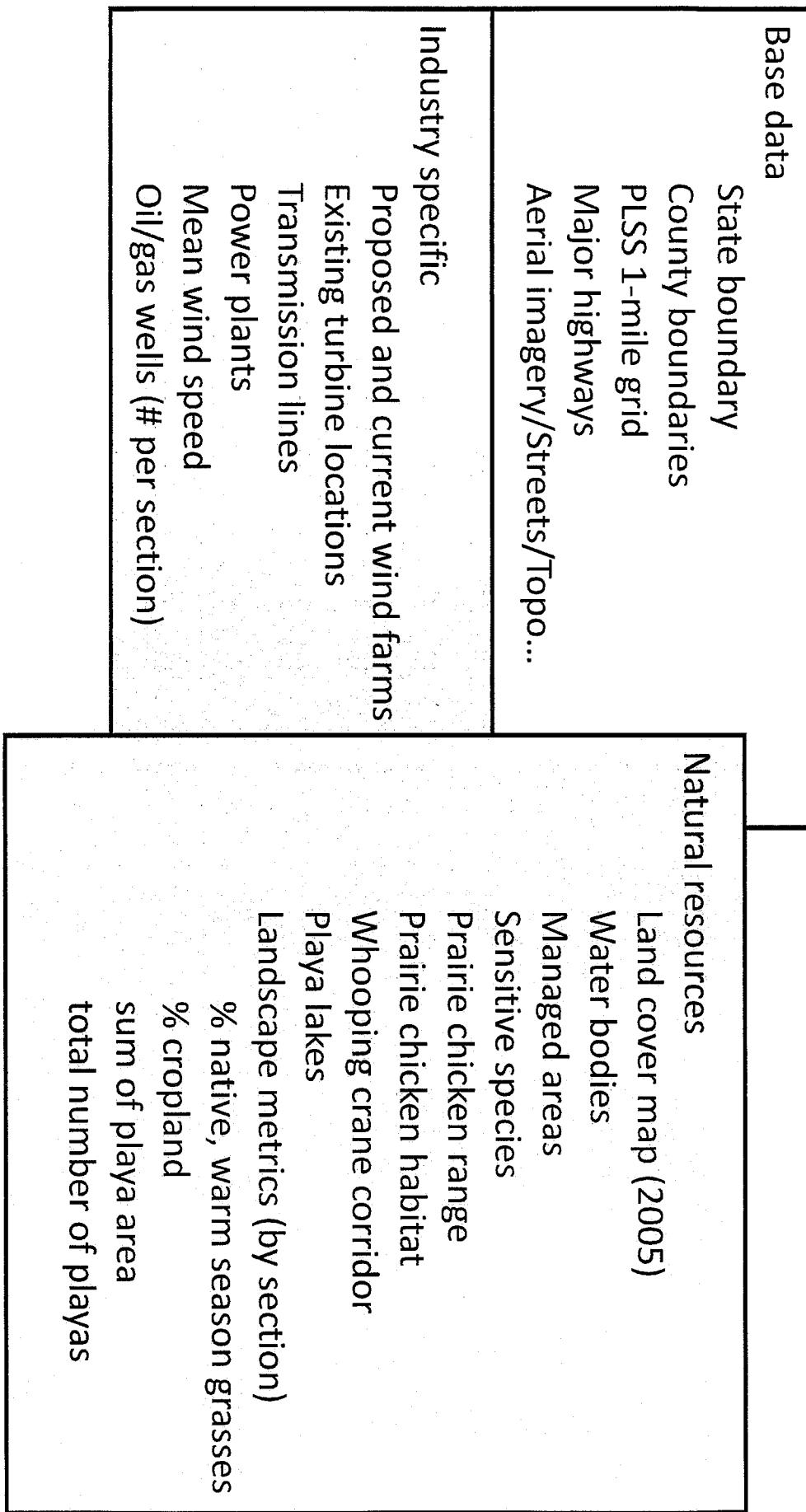


With significant input and contributions from:



The NRP is the result of a consortium of experts debating and identifying the best available data and/or professional opinion to assist with site planning.

# Data layers in the Natural Resource Planner



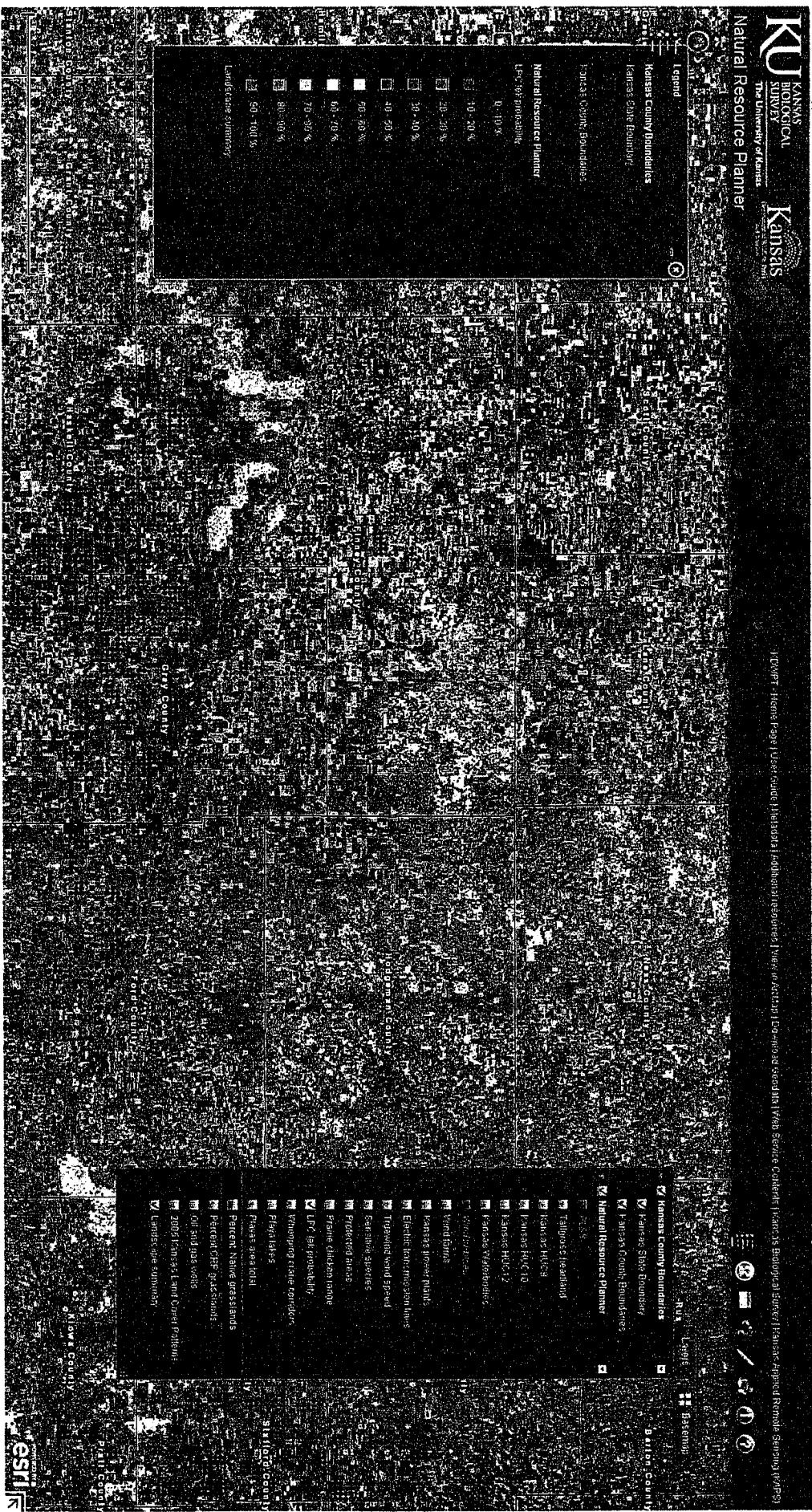
# Kansas Natural Resource Planner



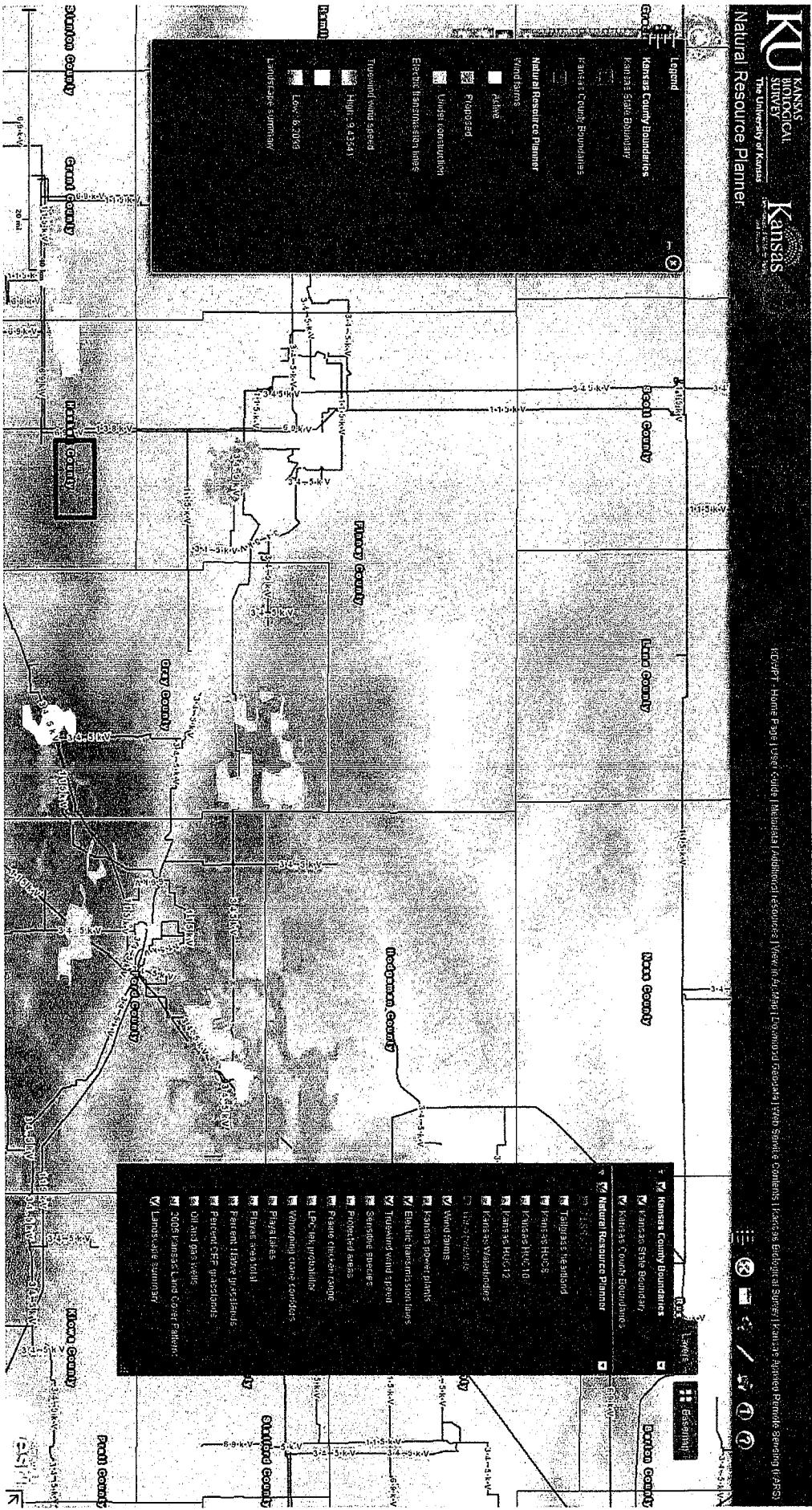
# Kansas Natural Resource Planner



## Using the NRP to examine grassland habitats



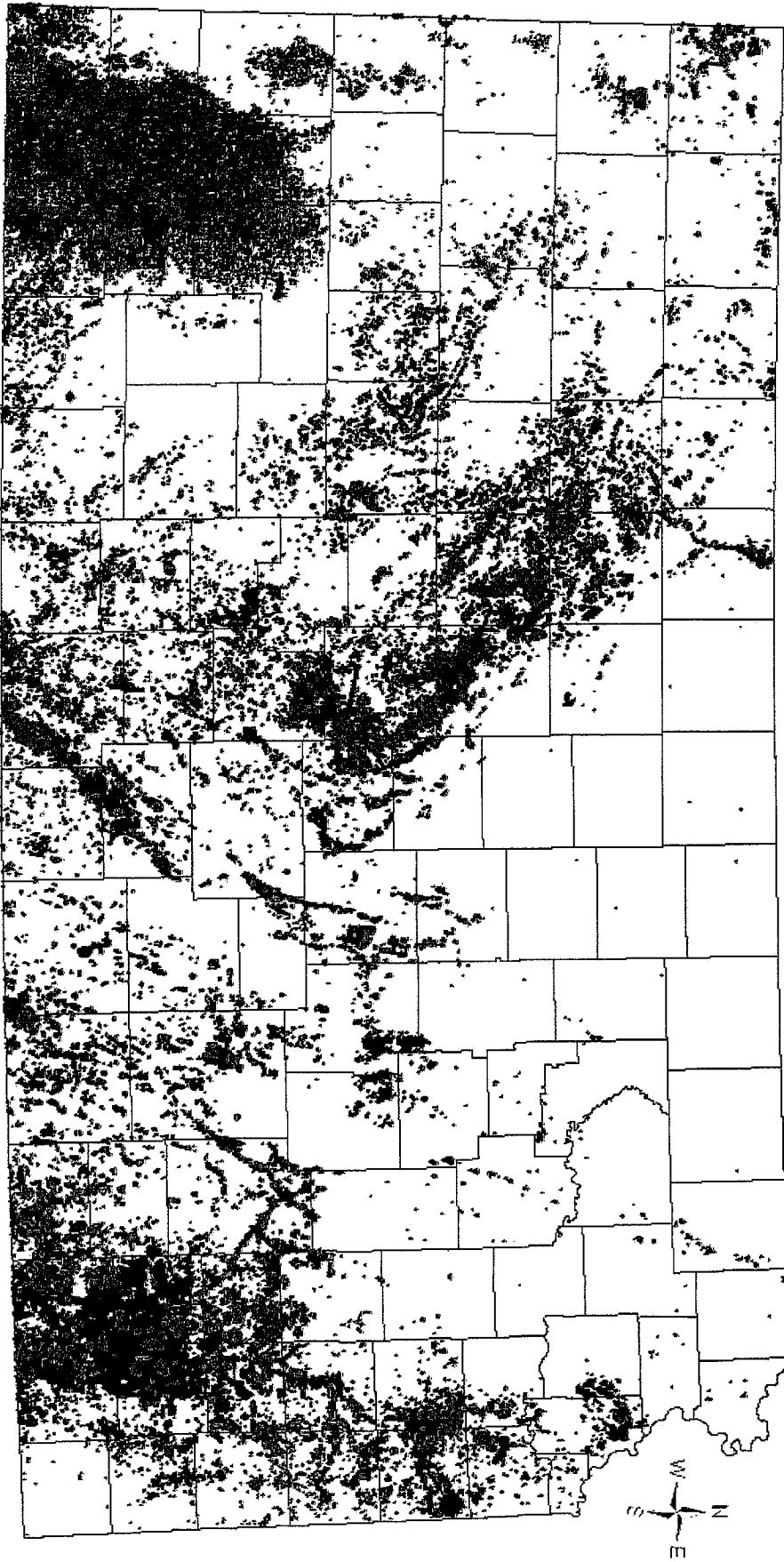
## Using the NRP to examine potential impacts



## Using the NRP to examine potential impacts

# NRP currently updating several datasets:

Active oil/gas wells, calculating difference since 2010



● Active Wells (Feb 2010)  
apx 150,000

● Permits Issued (Mar 2010 - Sept 25, 2012)  
apx 9,000

0 25 50 100 Km



## **NRP - Is It Being Used, Is it Useful?**

Total uses: 10,000 -12,000 since August 2009

Average about 200 uses per month

### **Prior to NRP:**

Project site planning and **approval often took months to years**

Lots of back-forth to the field and GIS data was less accessible

Developers were sometimes **unaware of data and assessment requirements**

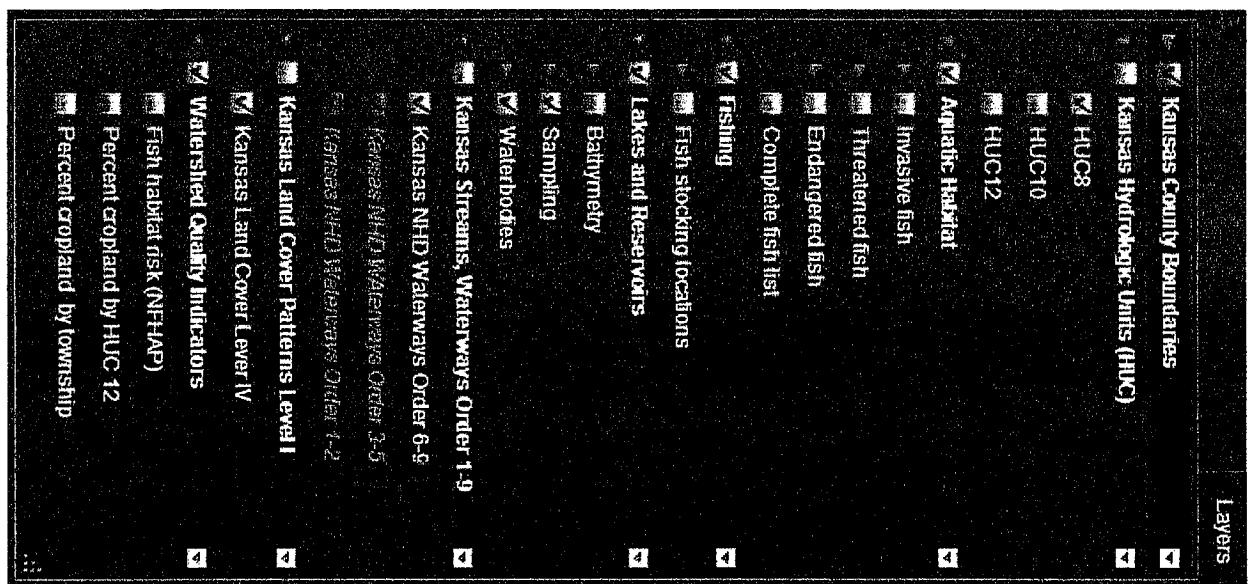
### **With NRP:**

Projects often come to KDWPs **already situated to avoid conflict areas**

Speeds up processing significantly (couple weeks...if necessary)

**Open understanding** of landscape variables of concern, and their distribution

# The Kansas Aquatic Resource Planner (KARP)



**Data currently in the KARP include:**

Hydrologic Units – HUC 8, 10, 12 units

Aquatic Habitat

Invasive species, modeled habitat

Fishing

Trout stocking locations

Lakes and Reservoirs

Reservoir depths

Sampling grid

Waterways

Streams by Strahler order

Land cover

Watershed quality indicators

NHFAP

Percent cropland

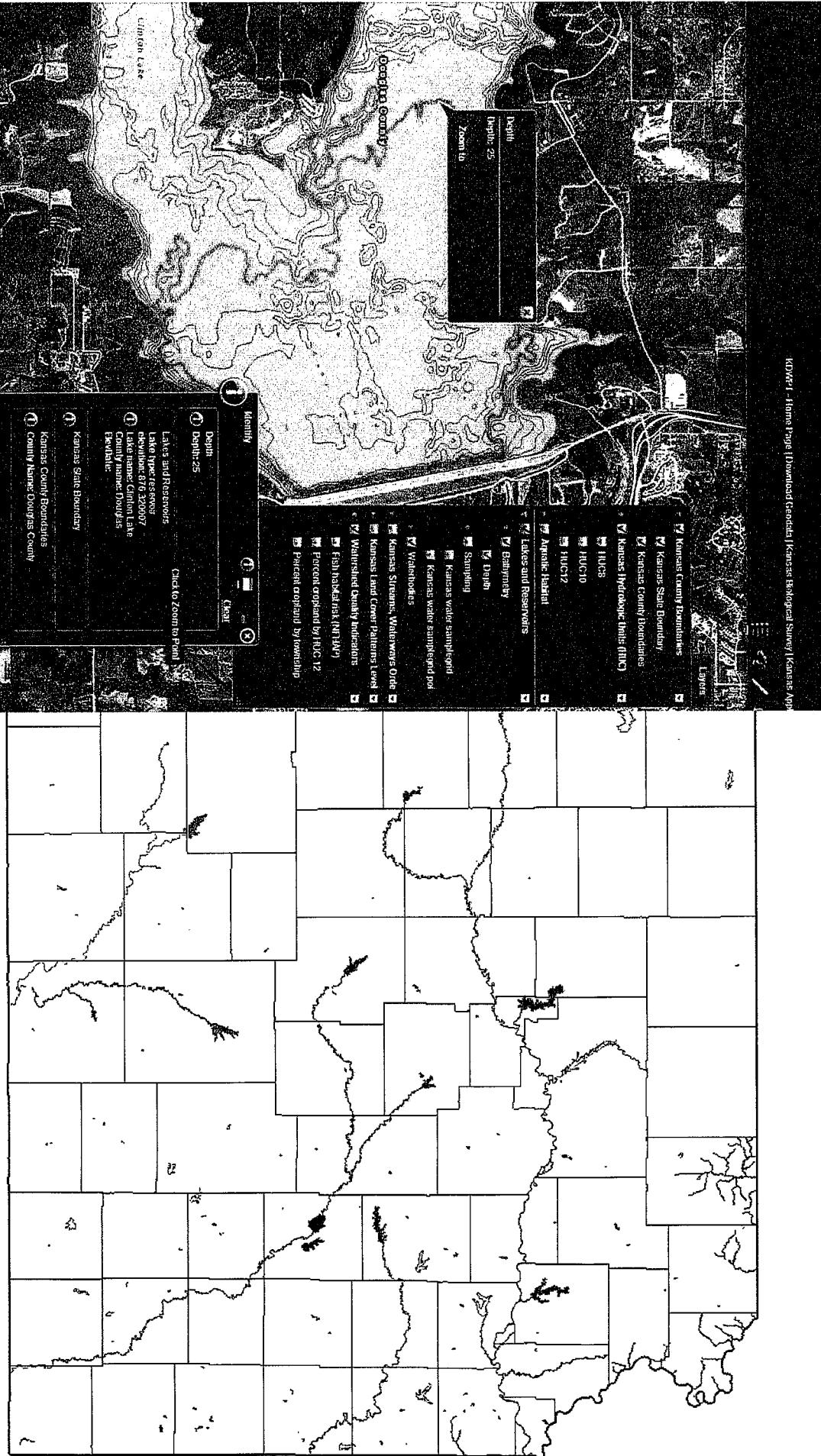
[kars.ku.edu/aquaticresourceplanner](http://kars.ku.edu/aquaticresourceplanner)

## Reservoir Depths

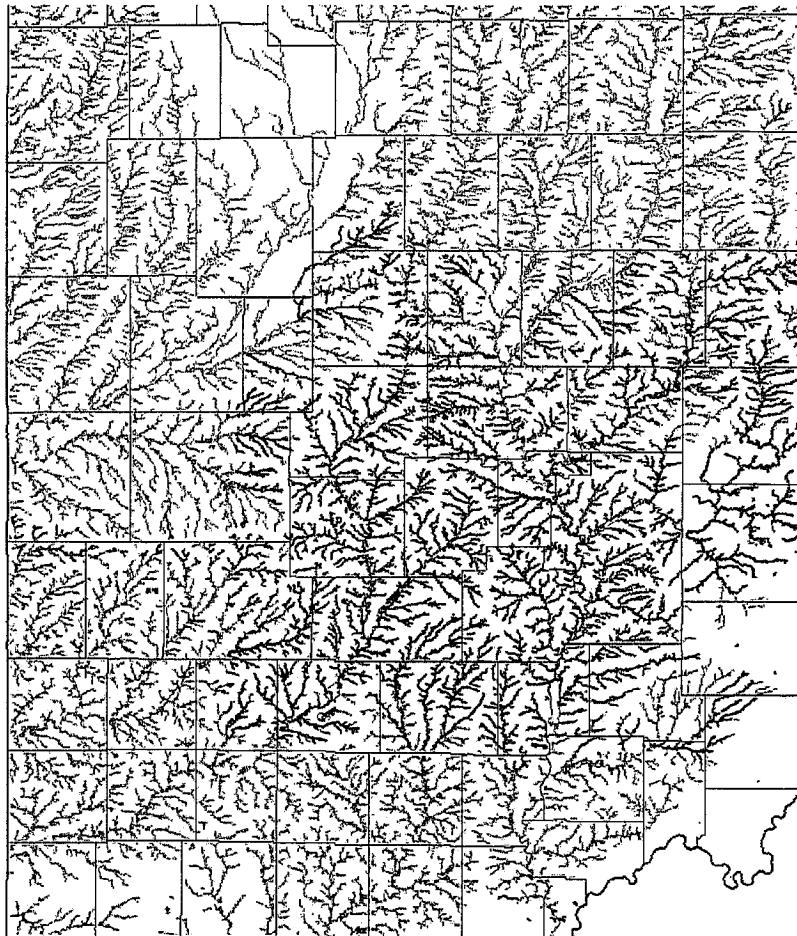
KDNR Home Page | Download Geodata | Kansas Biological Survey (Kansas KNP)

## Invasive Species

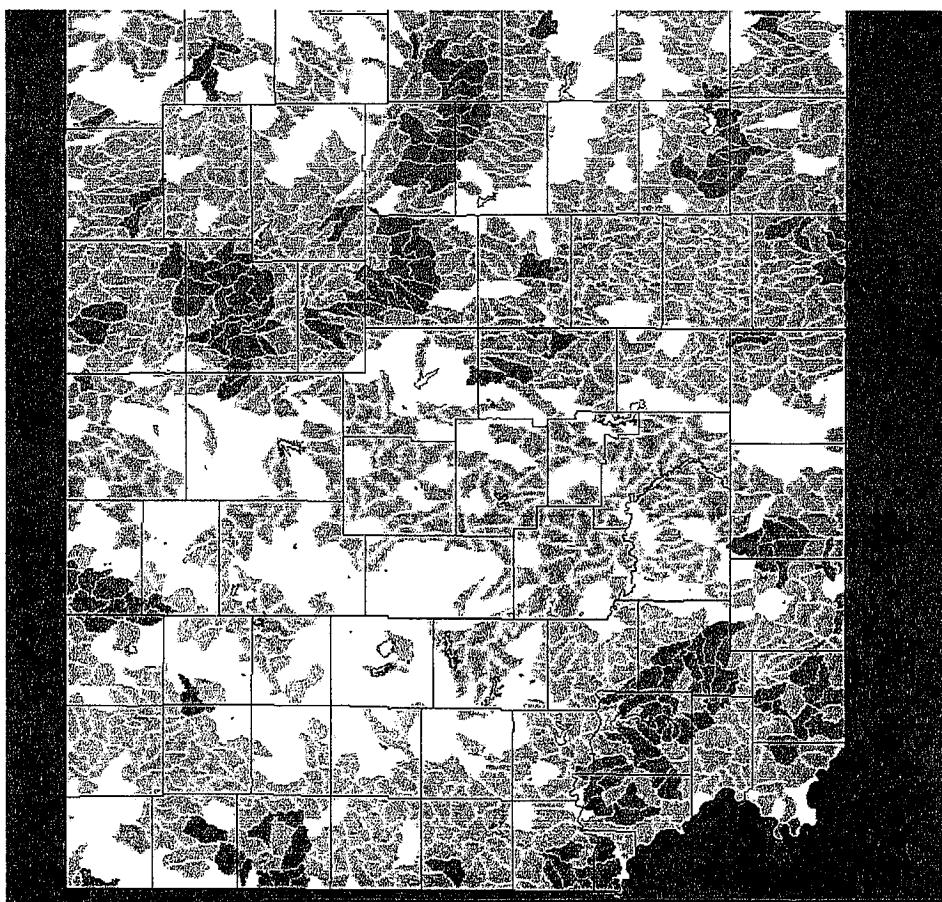
10-12



**Fish Habitat Probability  
(Topeka Shiner)**



**Fish Habitat Risk by Watershed  
(National Fish Habitat Action Plan)**



## **Western Governors Association Wildlife Council's initiative to map Crucial Habitats across Western United States**

Wildlife personnel from 17 western states tasked with identifying and prioritizing important wildlife habitats

"Crucial Habitats" across the west created from:

- Species and Habitats of concern
- Unfragmented lands (Large Intact Blocks)
- Terrestrial game and sport fish
- Wildlife Corridors
- Ecological Systems of Concern
- State specific data and priorities

Objective if WGA CHAT is to provide regional/course scale guidance to help with large scale and/or interstate project planning

Alert developers of potential conflicts in a region, and then direct them to more specific state data resources (NRP), and local biologists to conduct site specific analysis.

The CHAT, and even the NRP, are not explicit development “go/no-go” maps. They are early planning tools to help facilitate smart and efficient resource development /management.



16-16

## NRP, KARP, SGP CHAT

**Dynamic datasets updated as necessary\*  
to reflect changes in landscape condition  
and changes in wildlife/habitat knowledge.**

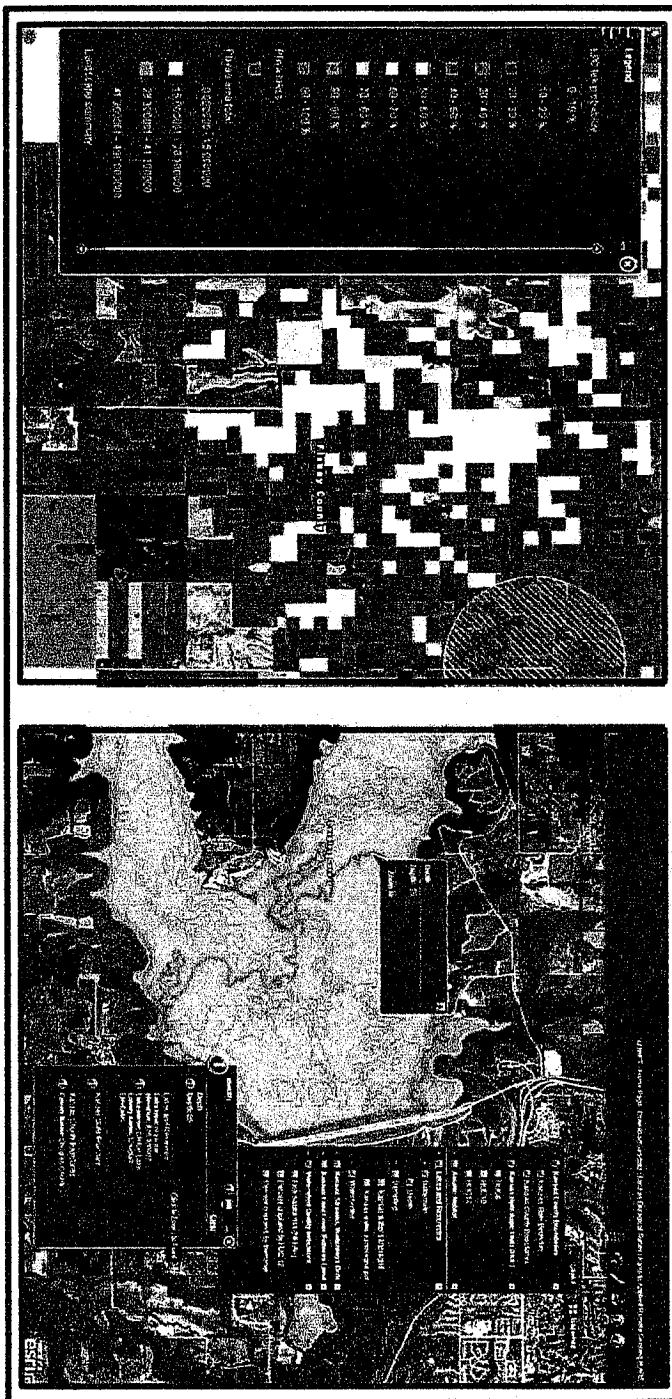
**Frequent enough to be current/useful,  
static enough to provide planning consistency**

# Kansas Natural Resource Planner

[www.kars.ku.edu/naturalresourceplanner](http://www.kars.ku.edu/naturalresourceplanner)

## Kansas Aquatic Resource Planner

[www.kars.ku.edu/aquaticresourceplanner](http://www.kars.ku.edu/aquaticresourceplanner)



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