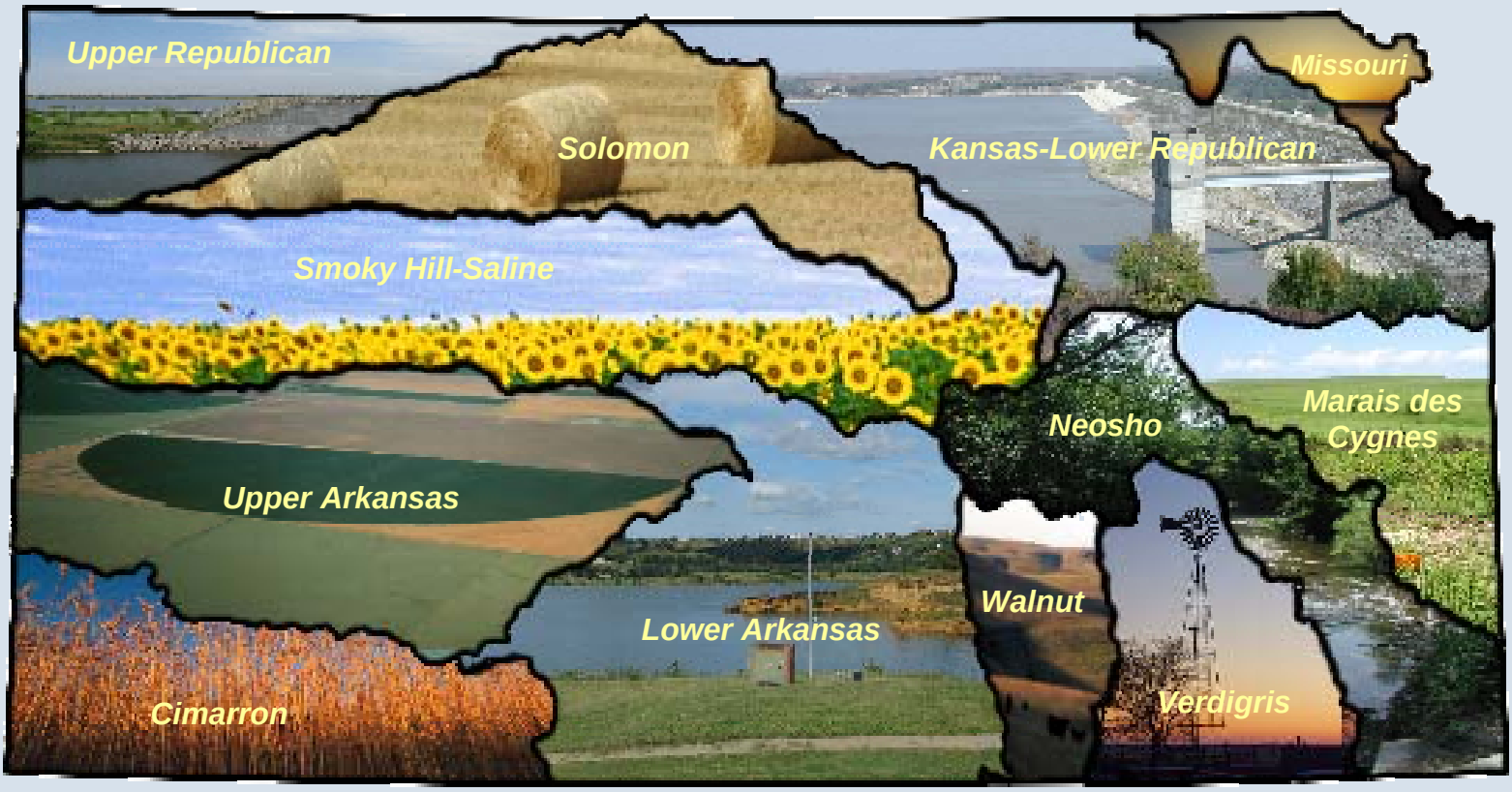
Kansas Water Plan



Atlas

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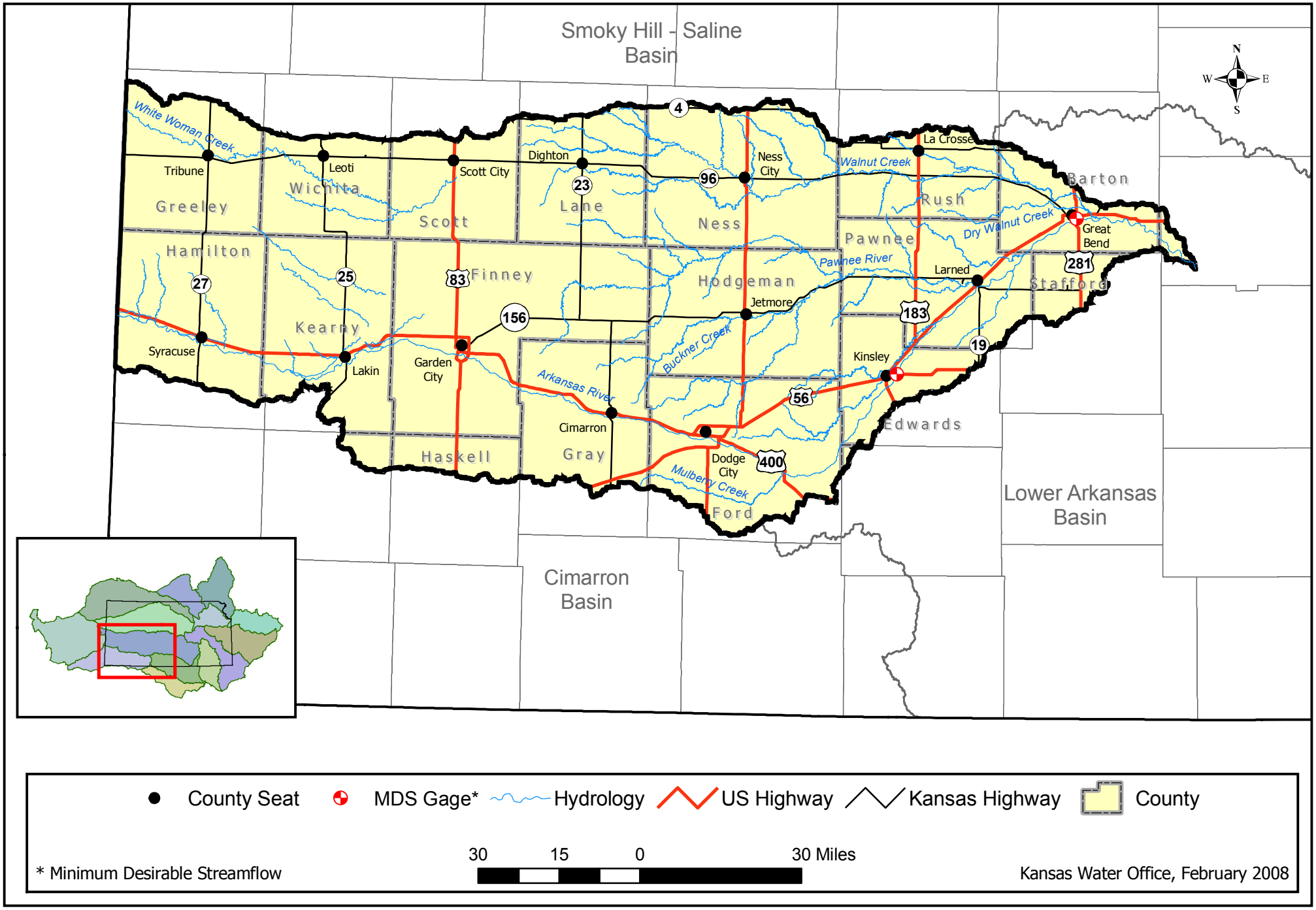
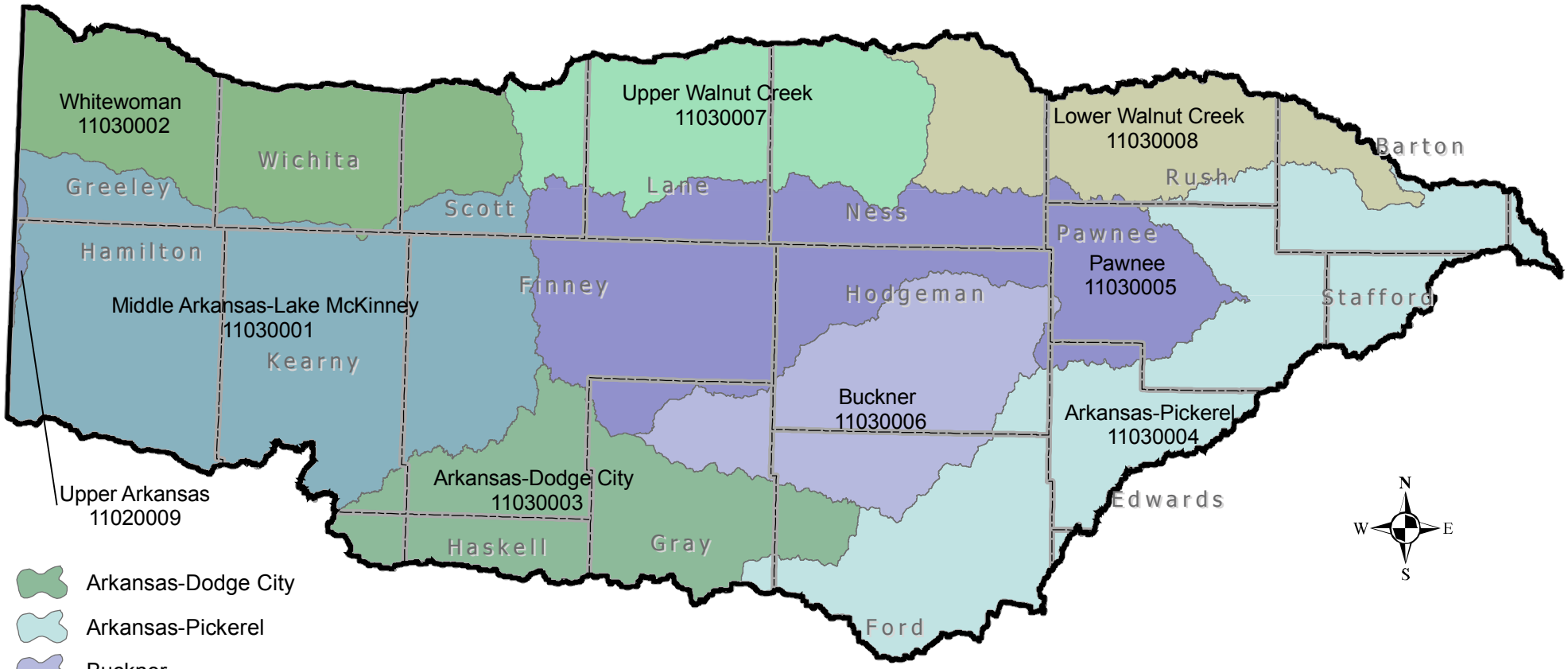
Upper Arkansas Basin



Upper Arkansas Basin

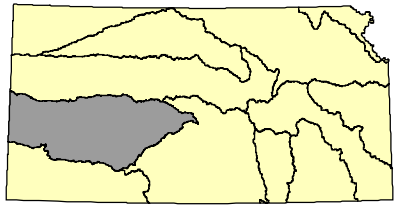
HUC-08 Subbasins



- Arkansas-Dodge City
- Arkansas-Pickerel
- Buckner
- Lower Walnut Creek
- Middle Arkansas-Lake McKinney
- Pawnee
- Upper Arkansas
- Upper Walnut Creek
- Whitewoman

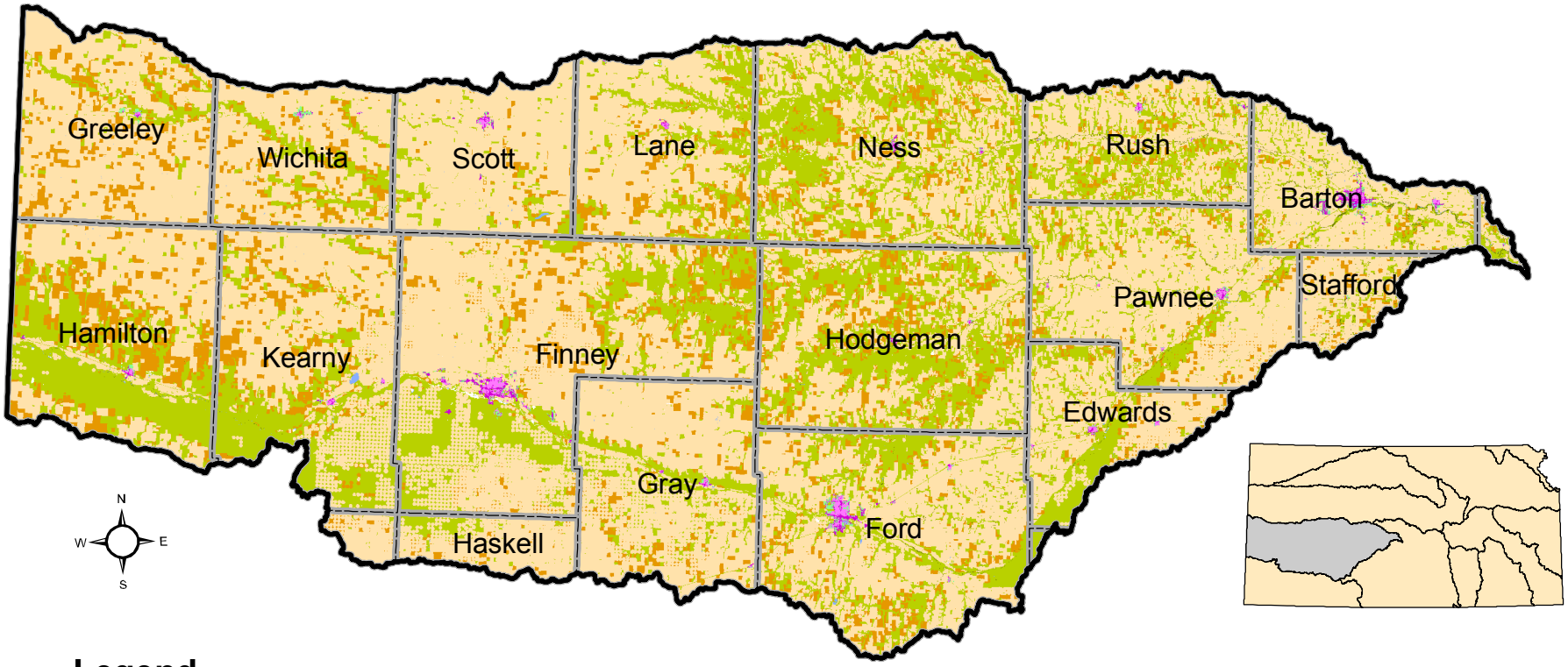
20 10 0 20 Miles

Kansas Water Office, May 2008



Upper Arkansas Basin

2005 Land Use / Land Cover



Legend

- Urban Industrial/Commercial
- Urban Residential
- Urban Openland
- Urban Woodland
- Urban Water
- Cropland
- Grassland
- Conservation Reserve Program (CRP)
- Woodland
- Water
- Other

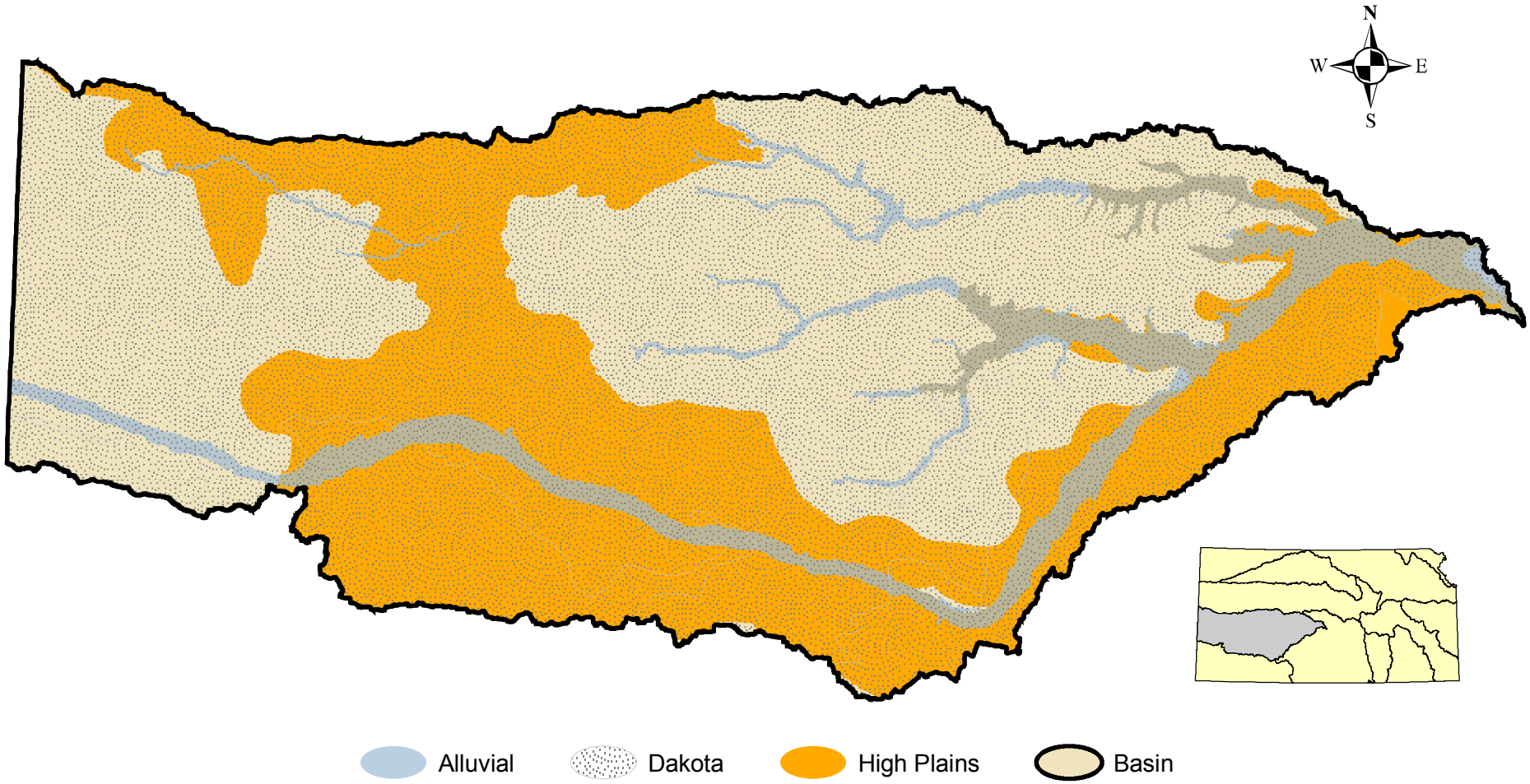
50 25 0 50 Miles

Source: Landsat 5 imagery, Kansas Applied Remote Sensing Program, University of Kansas

Kansas Water Office, October 2008

Upper Arkansas Basin

Aquifers

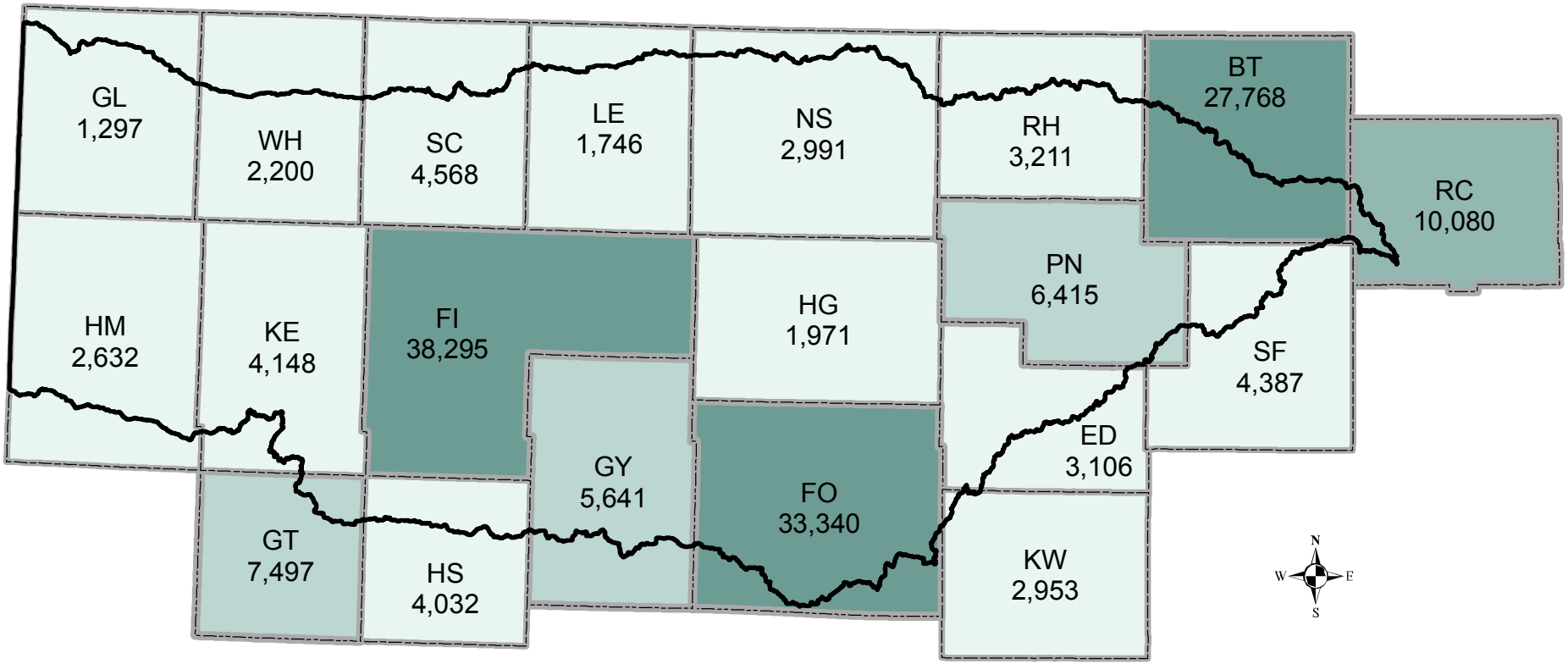


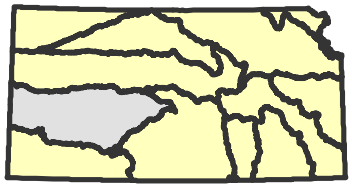
Data Source: U.S. Geological Survey
Prepared for Kansas Water Plan 2008

0 15 30 60 Miles

Upper Arkansas Basin

2007 Population Estimates by County



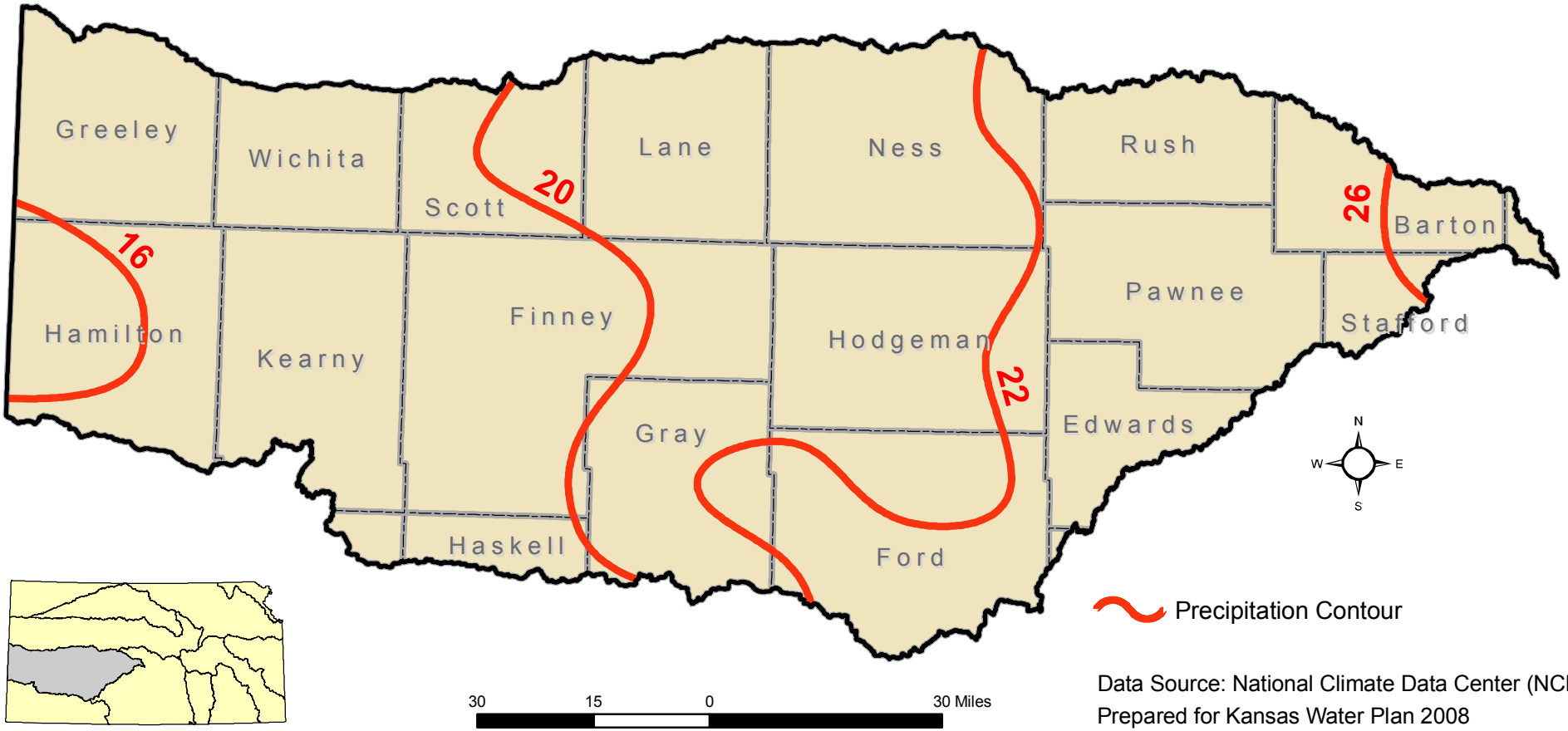


0 10 20 40 60 Miles

Data Sources:
Kansas Division of Budget, July 1, 2008
Prepared for Kansas Water Plan 2008

Upper Arkansas Basin

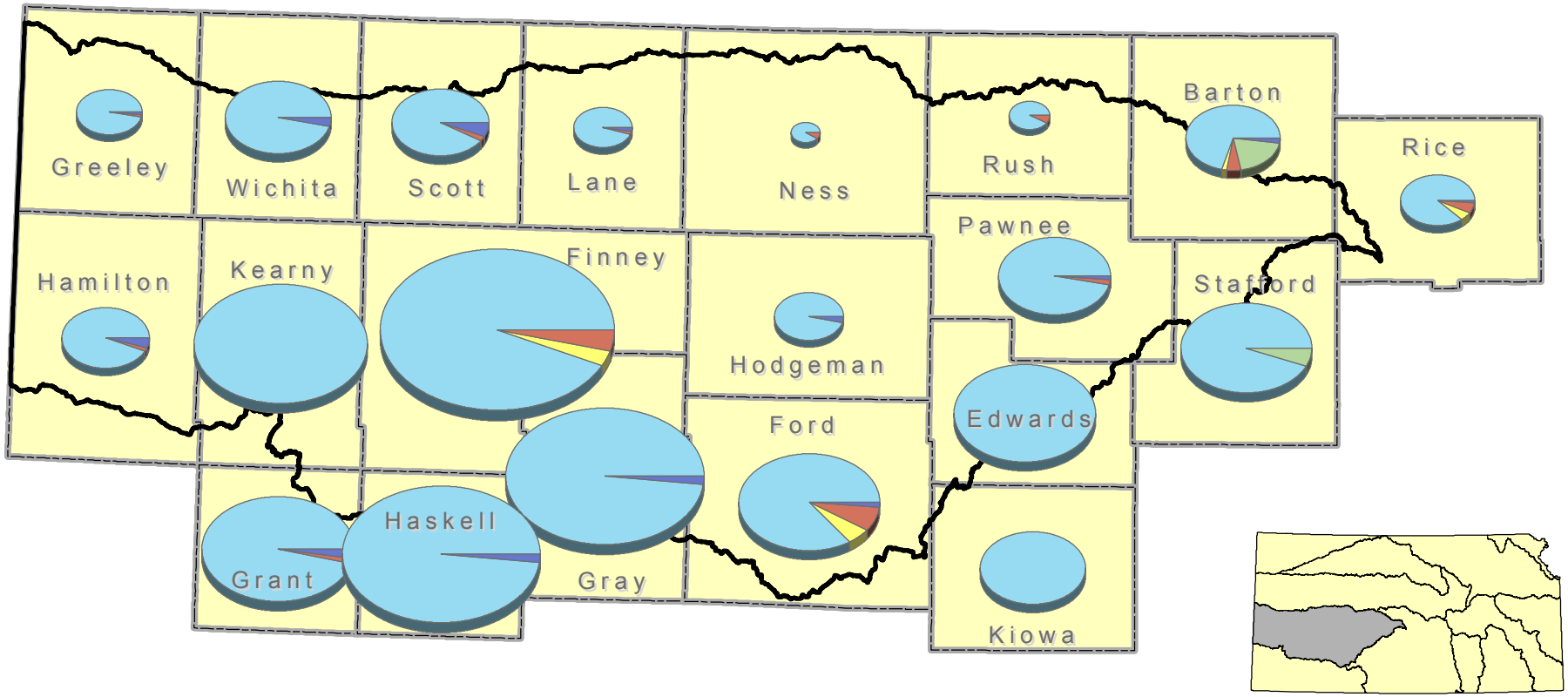
Precipitation



Data Source: National Climate Data Center (NCDC)
Prepared for Kansas Water Plan 2008

Upper Arkansas Basin

2006 Water Use By County



Data Sources:
Division of Water Resources, Water Use Program
Kansas Water Office, Water Marketing Program

30 15 0 30 Miles

Kansas Water Office, May 2008

N

Water Use by Type of Use

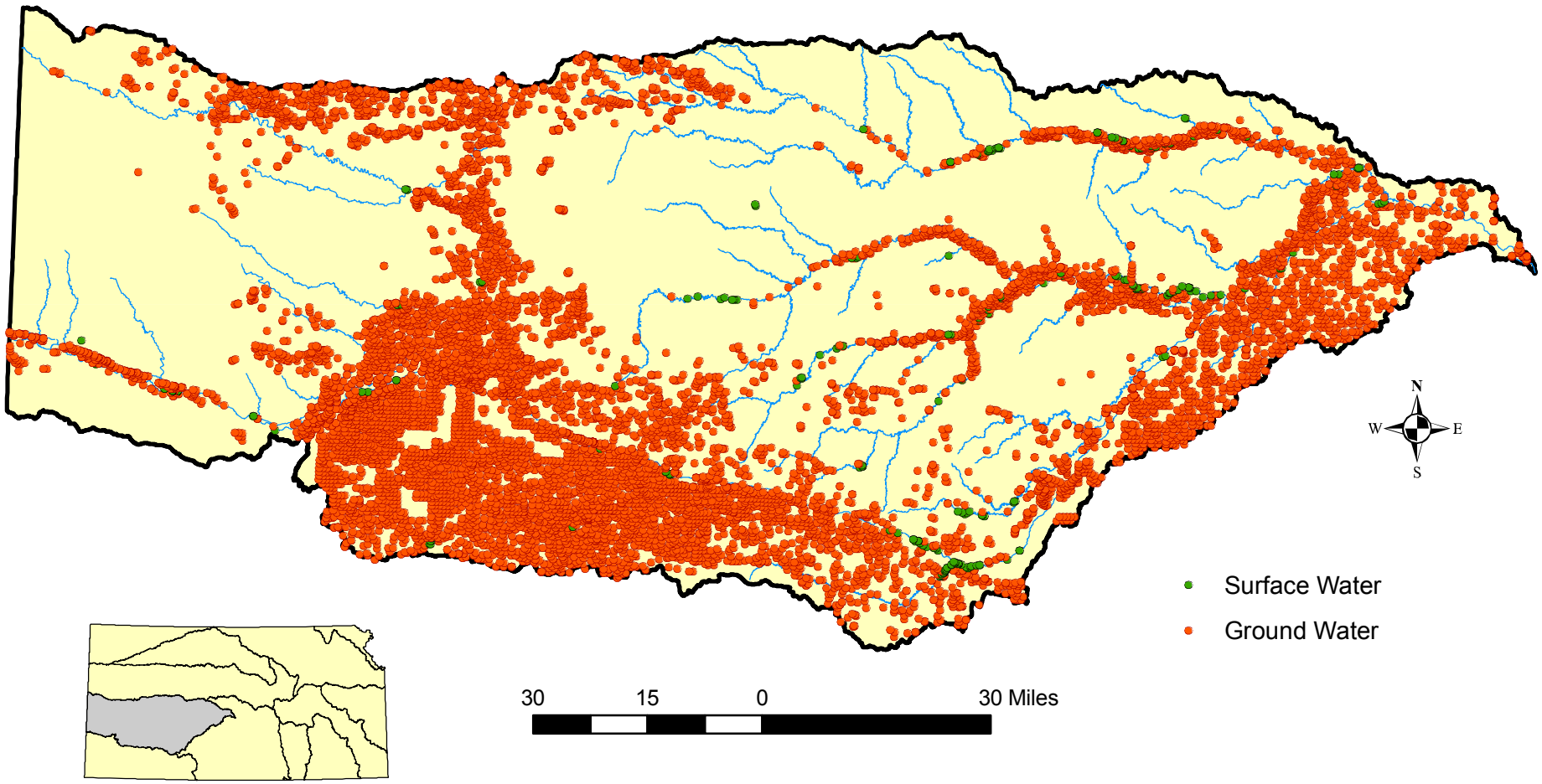
Acre Feet

33,000

Irrigation
Industry
Municipal
Recreation
Stock Water

Upper Arkansas Basin

Irrigation Points of Diversion

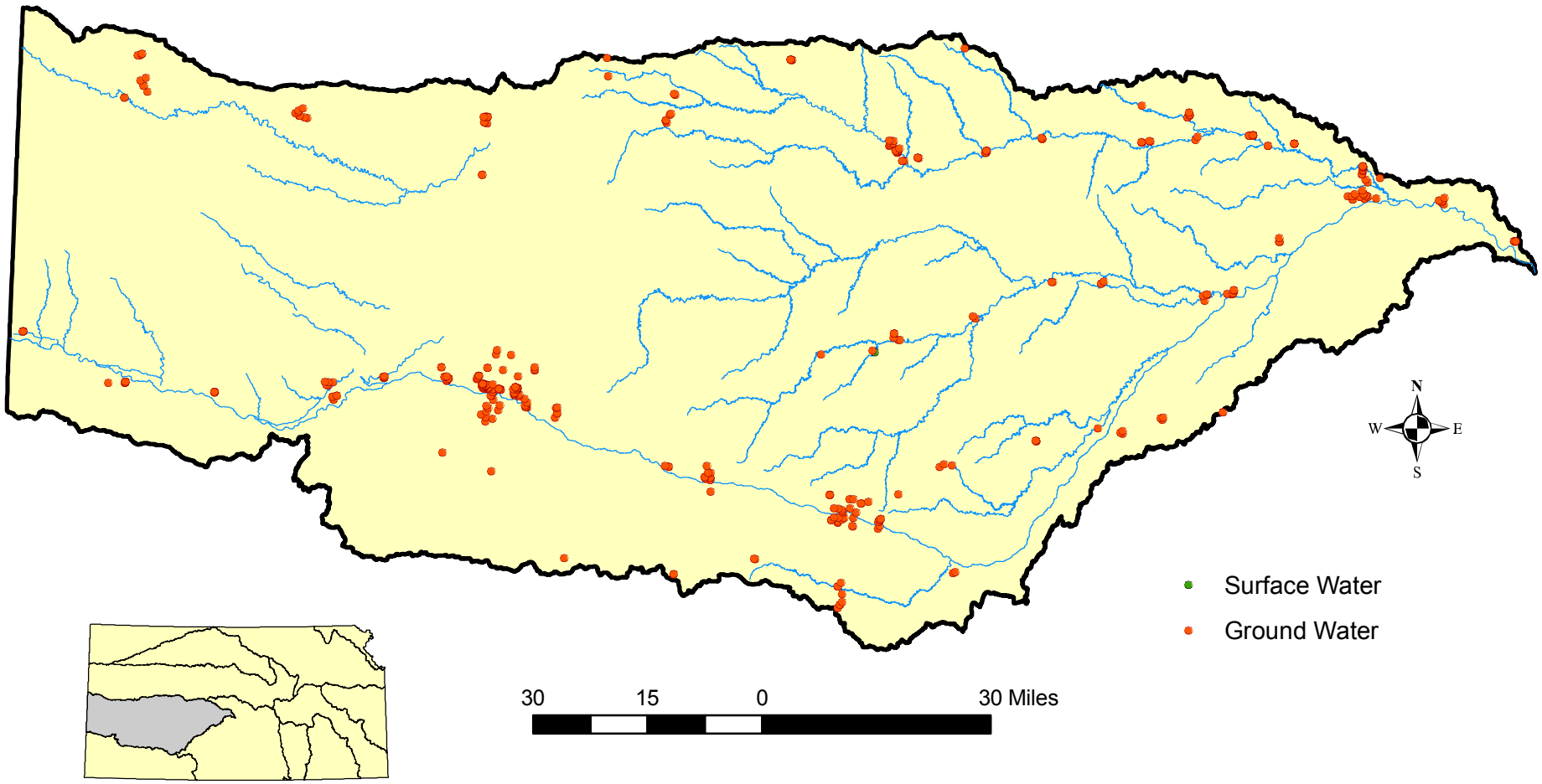


Data Source: Kansas Department of Agriculture, November 2008

Prepared for Kansas Water Plan 2008

Upper Arkansas Basin

Municipal Points of Diversion

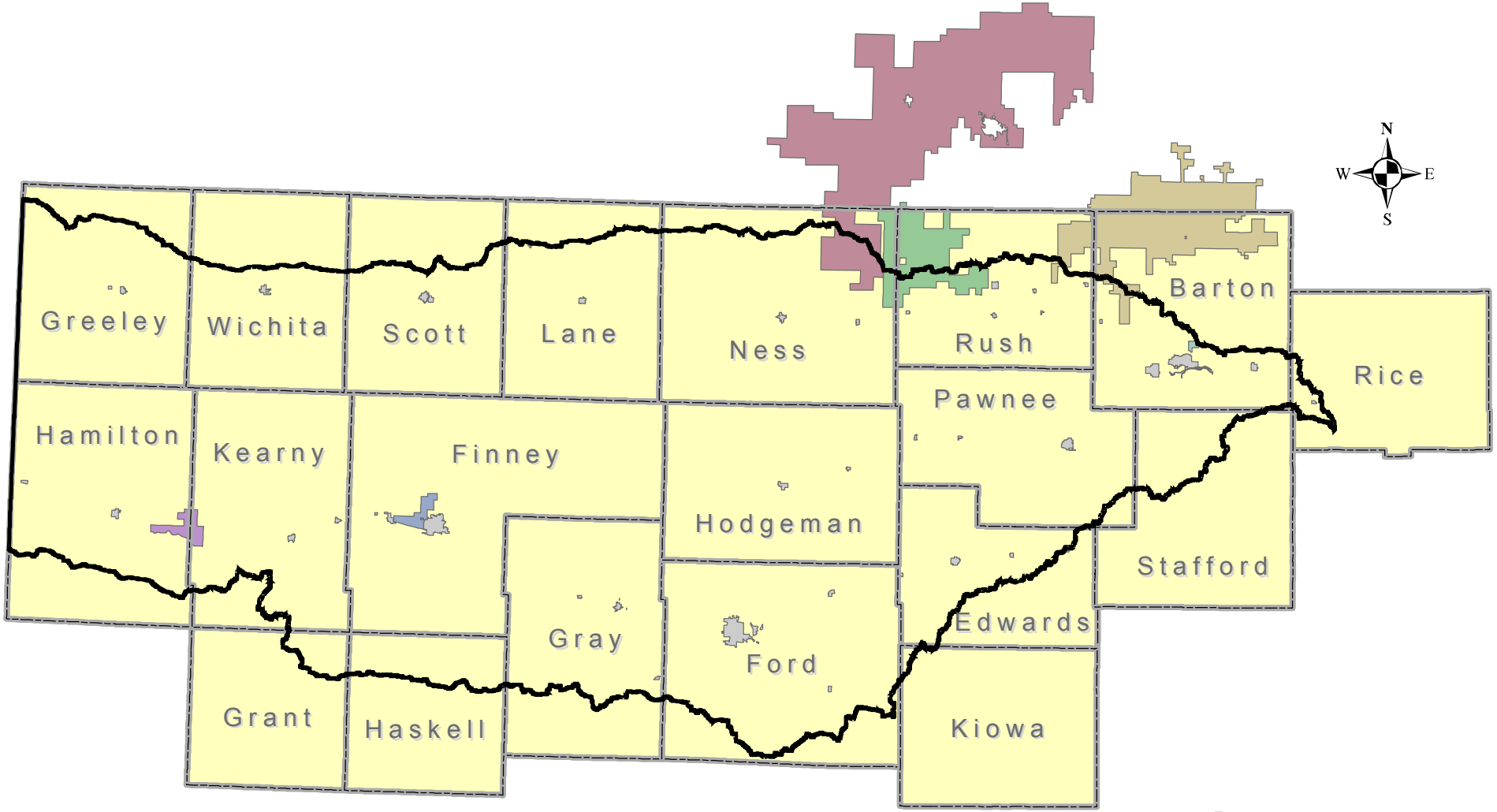


Data Source: Kansas Department of Agriculture, November 2008

Prepared for Kansas Water Plan 2008

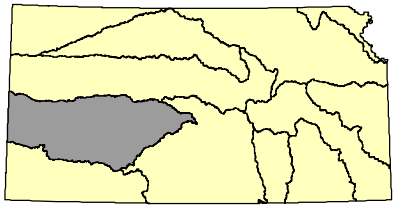
Upper Arkansas Basin

Public Water Suppliers

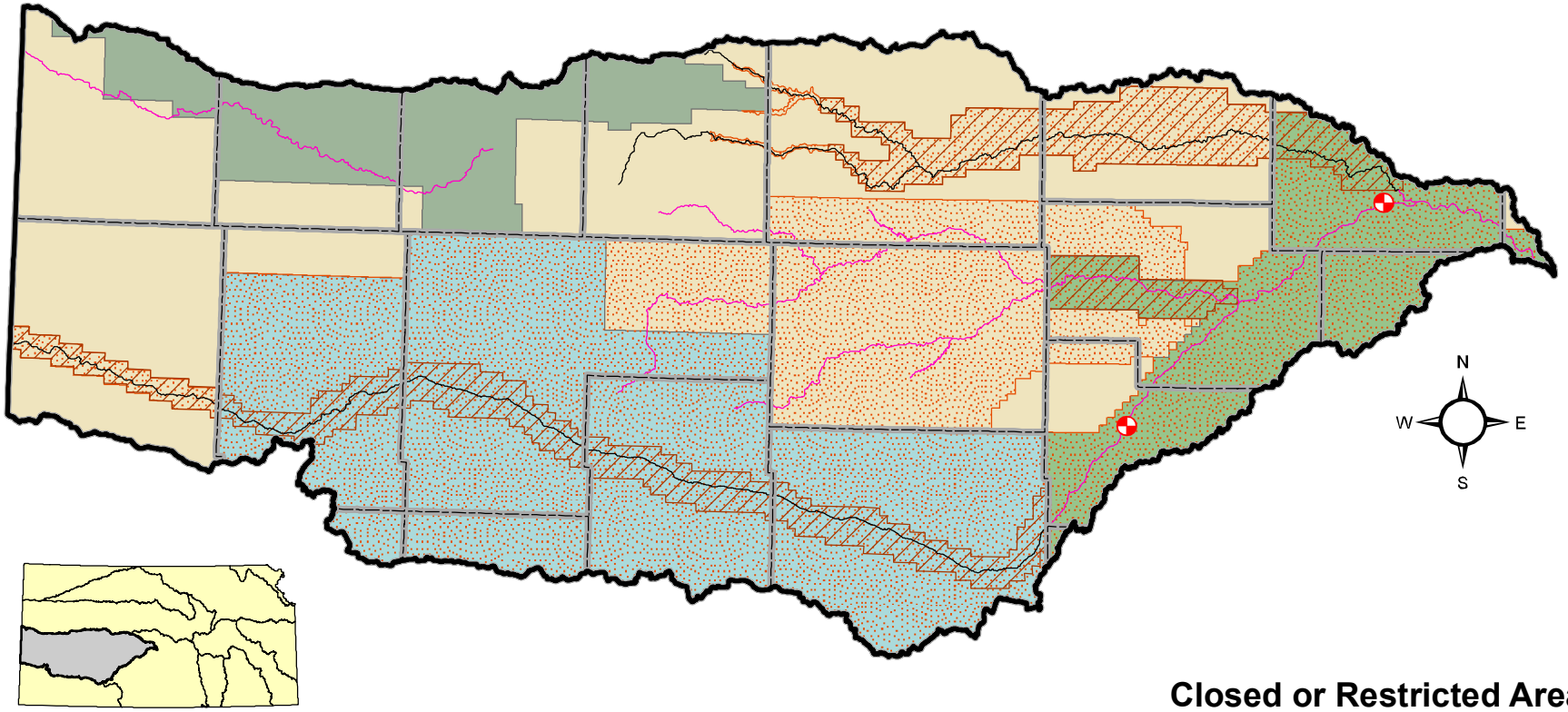


20 10 0 20 Miles

Kansas Water Office, September 2008



Upper Arkansas Basin
Water Management



Closed or Restricted Area*

Closed Stream

Restricted Stream

Closed

* See Regulation for details

Minimum Desirable Streamflow Gage

Intensive Groundwater Use Control Area (IGUCA) or
Special Water Quality Use Area (SWQUA)

Western Kansas Groundwater Management District (GMD) #1

Southwest Kansas Groundwater Management District (GMD) #3

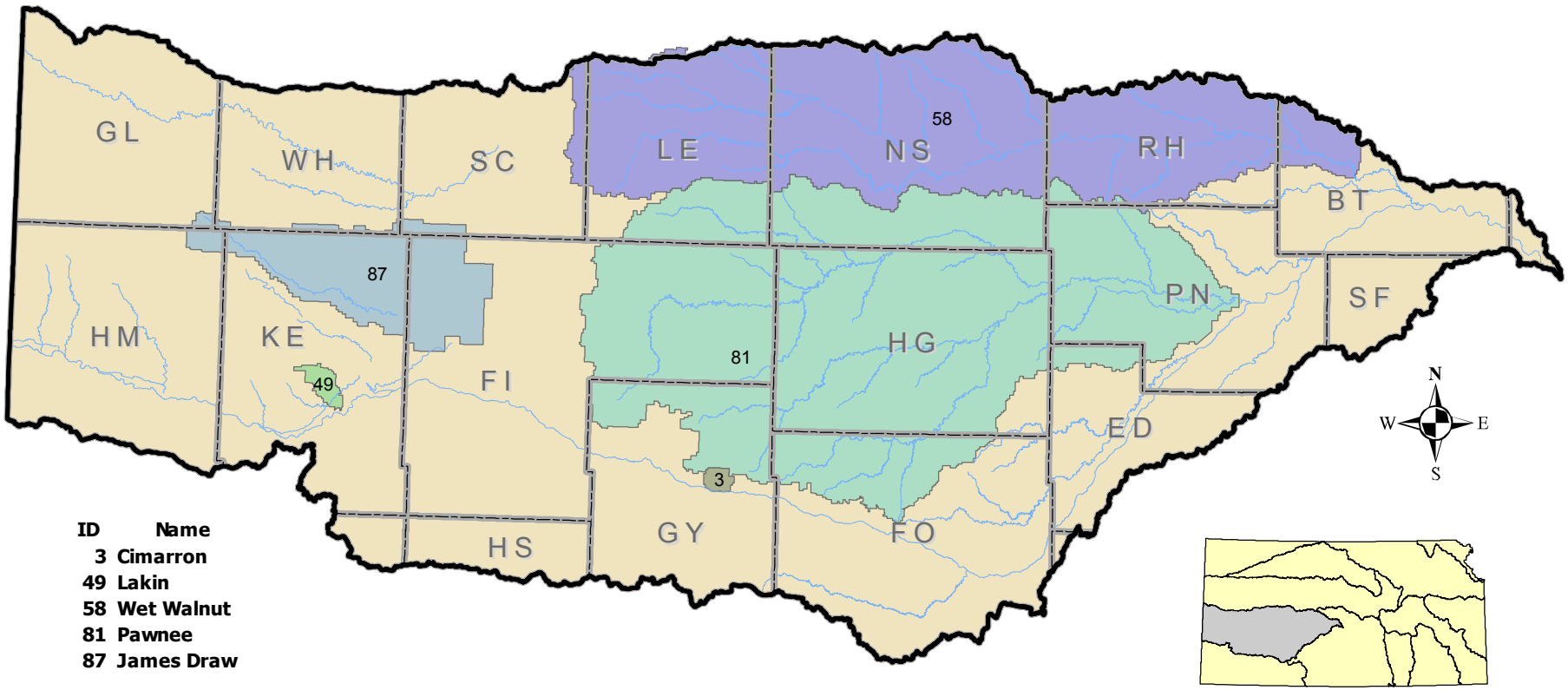
Big Bend Groundwater Management District (GMD) #5

30 15 0 30 Miles

Source:
Kansas Department of Agriculture

Kansas Water Office, November 2008

Upper Arkansas Basin
Watershed Districts



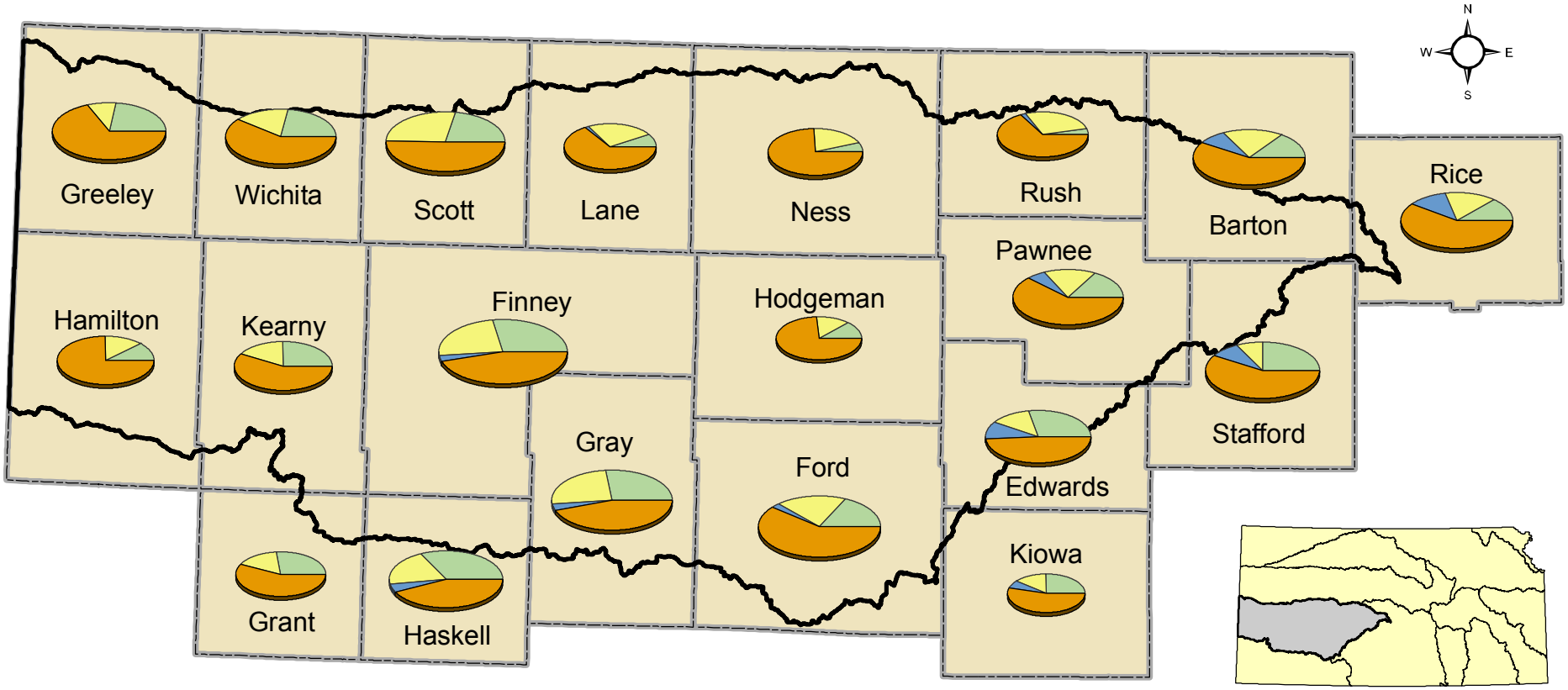
Source:
Kansas Department of Agriculture and
State Conservation Commission

30 15 0 30 Miles

Kansas Water Office, November 2008

Upper Arkansas Basin

2007 Harvested Crop Inventory by County



Acres

100,000

Corn

Grain Sorghum

Soybean

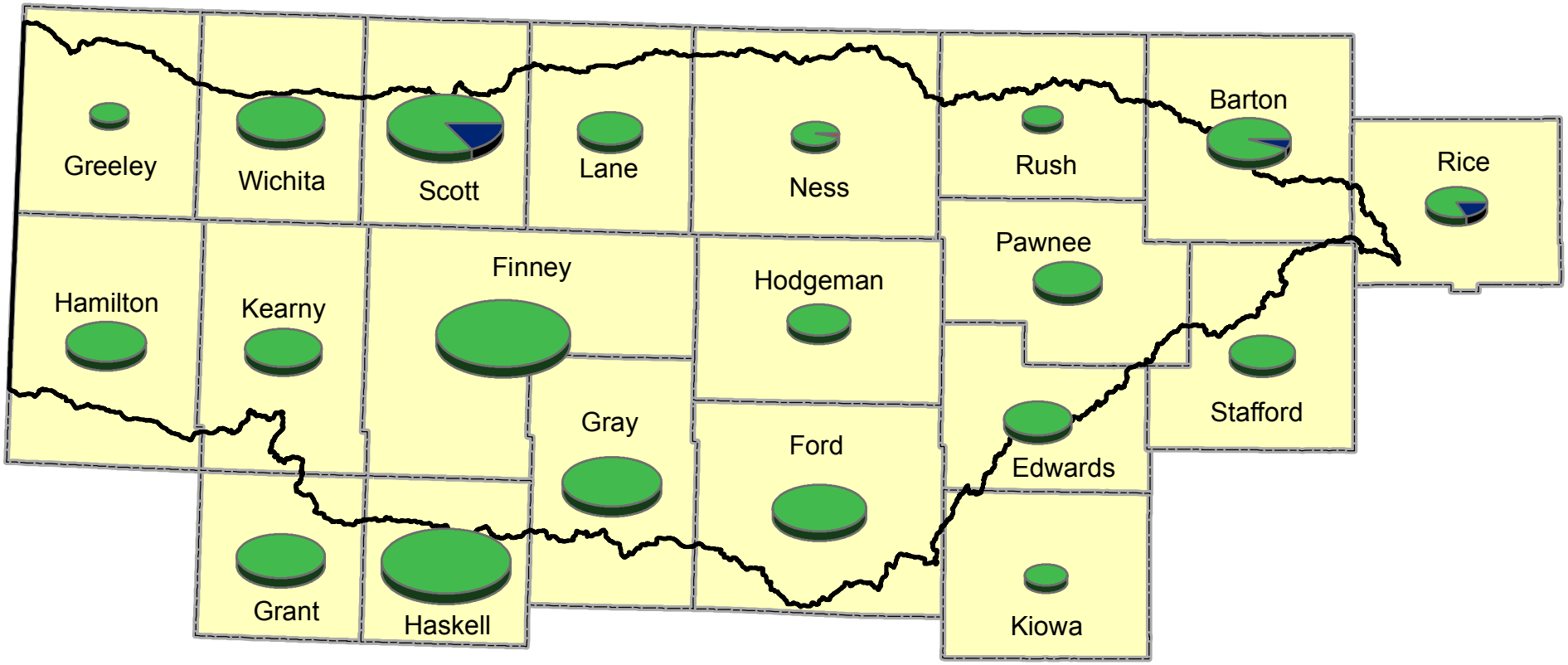
Wheat

0 15 30 60 Miles

Data Sources: Kansas Agricultural Statistics
Prepared for Kansas Water Plan 2008

Upper Arkansas Basin

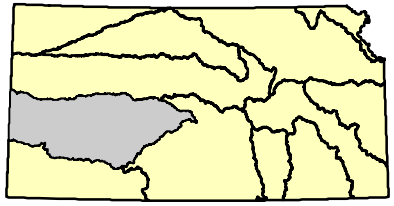
2002 Livestock Inventory by County



Cattle and Calves

Hogs and Pigs

Sheep and Lambs



0 10 20 40 60 Miles

Note: Some data not shown to protect individual farm operations

Data Sources: 2002 Census of Agriculture
Prepared for Kansas Water Plan 2008