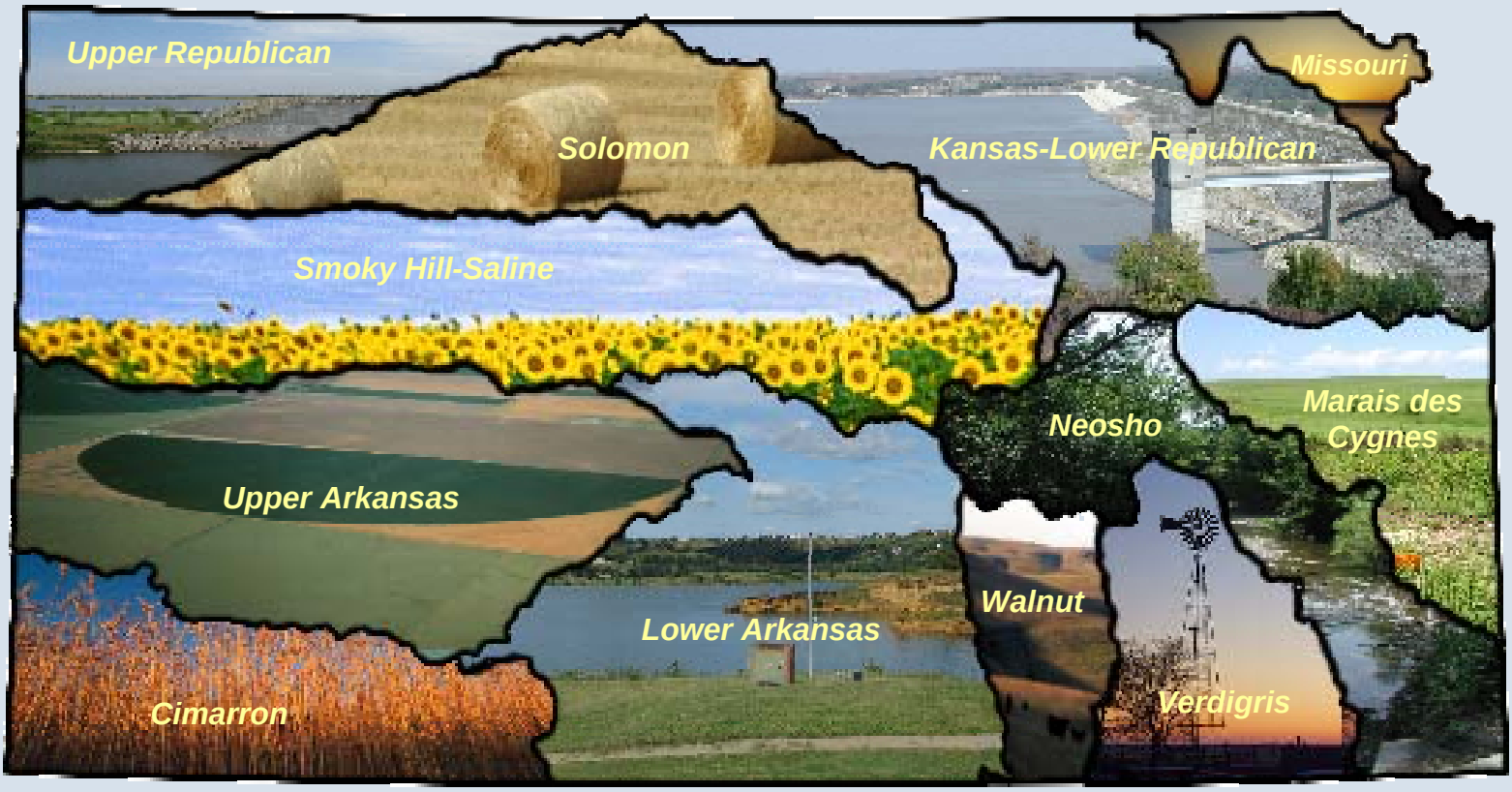
Kansas Water Plan



Atlas

Kansas Water Plan - Atlas
LARK - Table of Contents

Lower Arkansas Basin

General Base Map

Hydrologic Unit Codes (HUC) Map

Land Cover

Major Aquifers

Surface Water

Population

Precipitation

Water Use

Irrigation Points of Diversion

Municipal Points of Diversion

Public Water Suppliers

Federal Lake Storage Customers

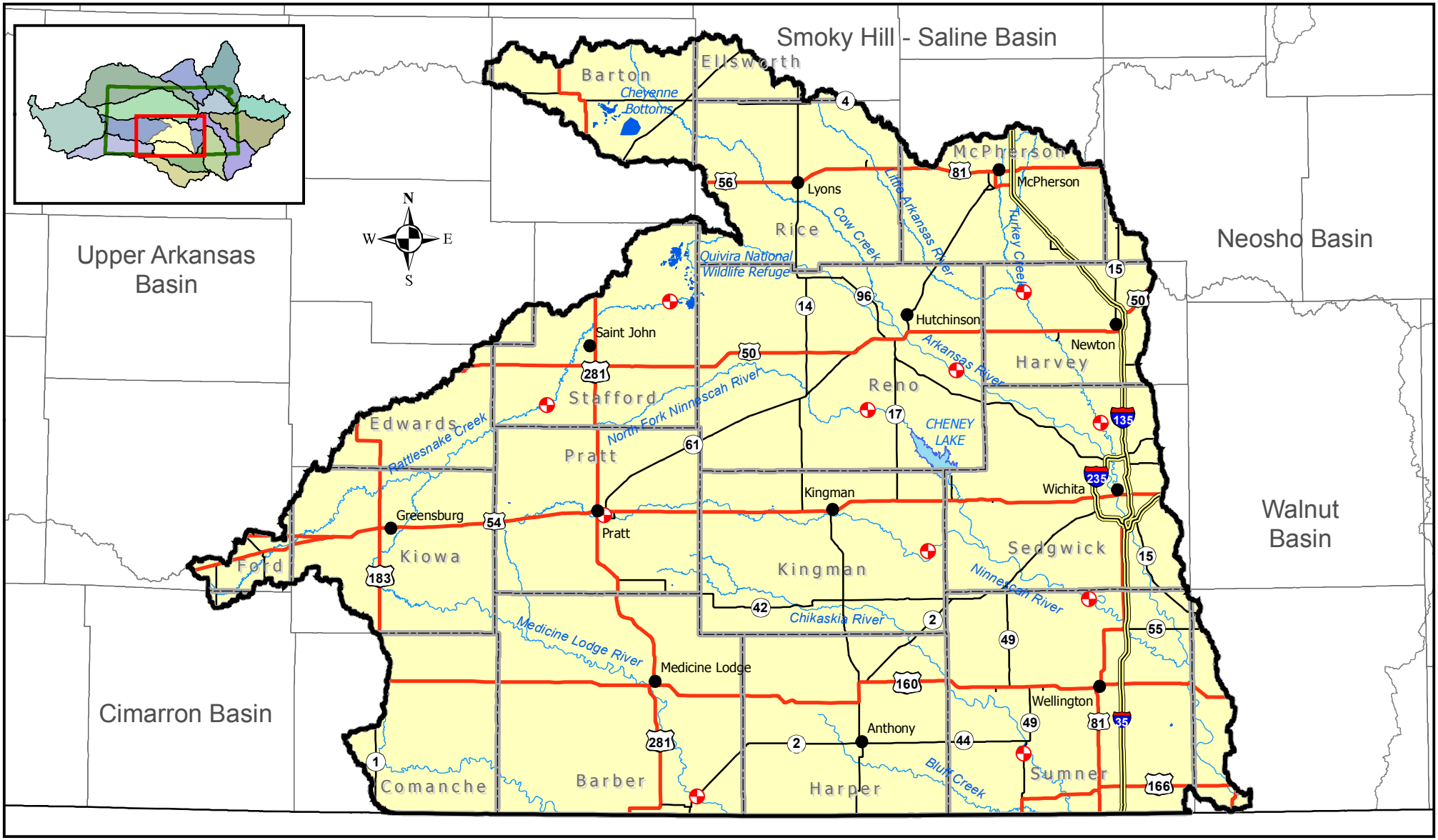
Water Management

Watershed Districts

Crop Inventory

Livestock Inventory

Lower Arkansas Basin



County Seat
Interstate Highway
Kansas Highway
Federal Lake
County
MDS Gage*
US Highway
Hydrology
Wildlife Refuge

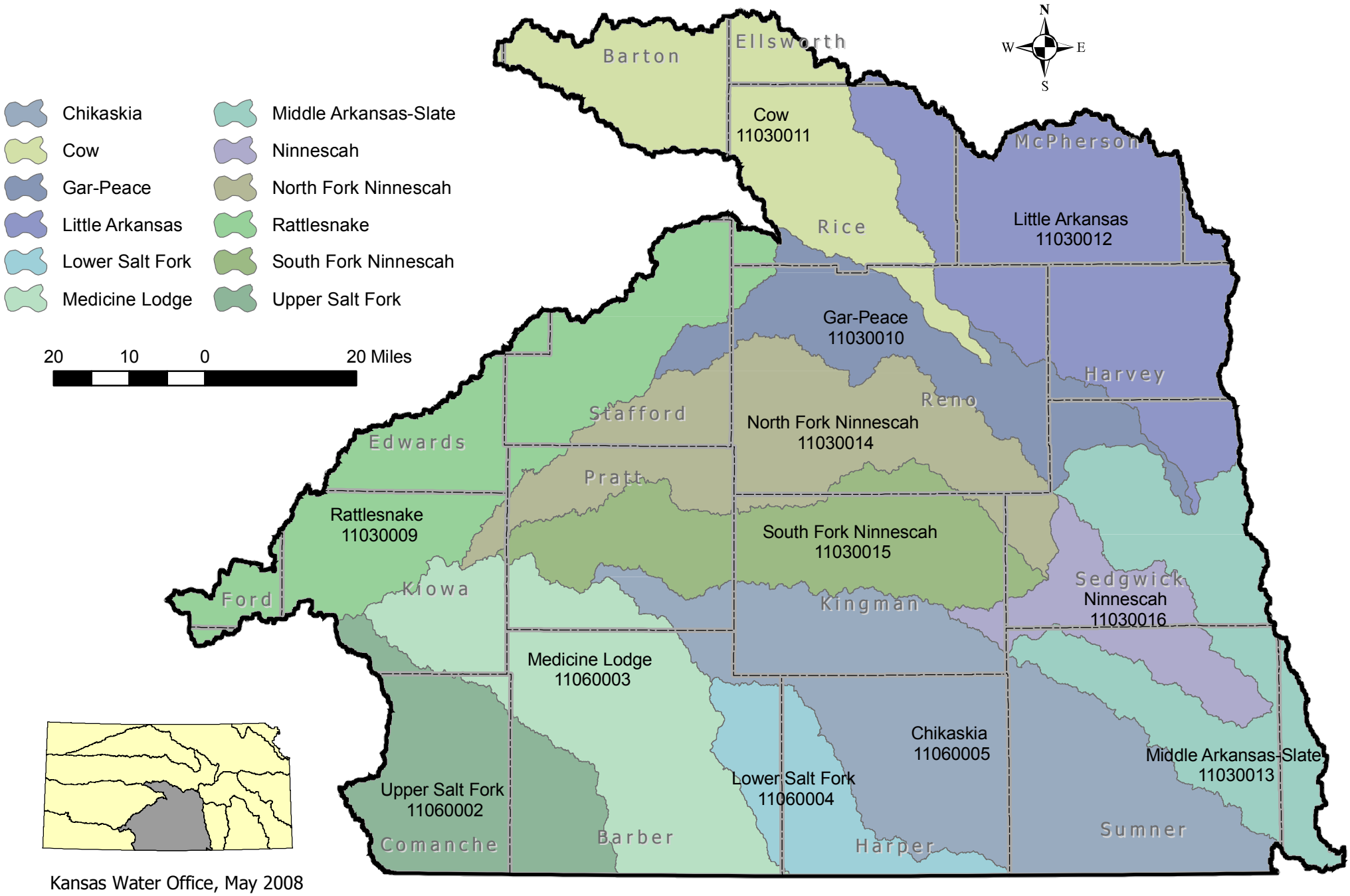
25 12.5 0 25 Miles

* Minimum Desirable Streamflow

Kansas Water Office, February 2008

Lower Arkansas Basin

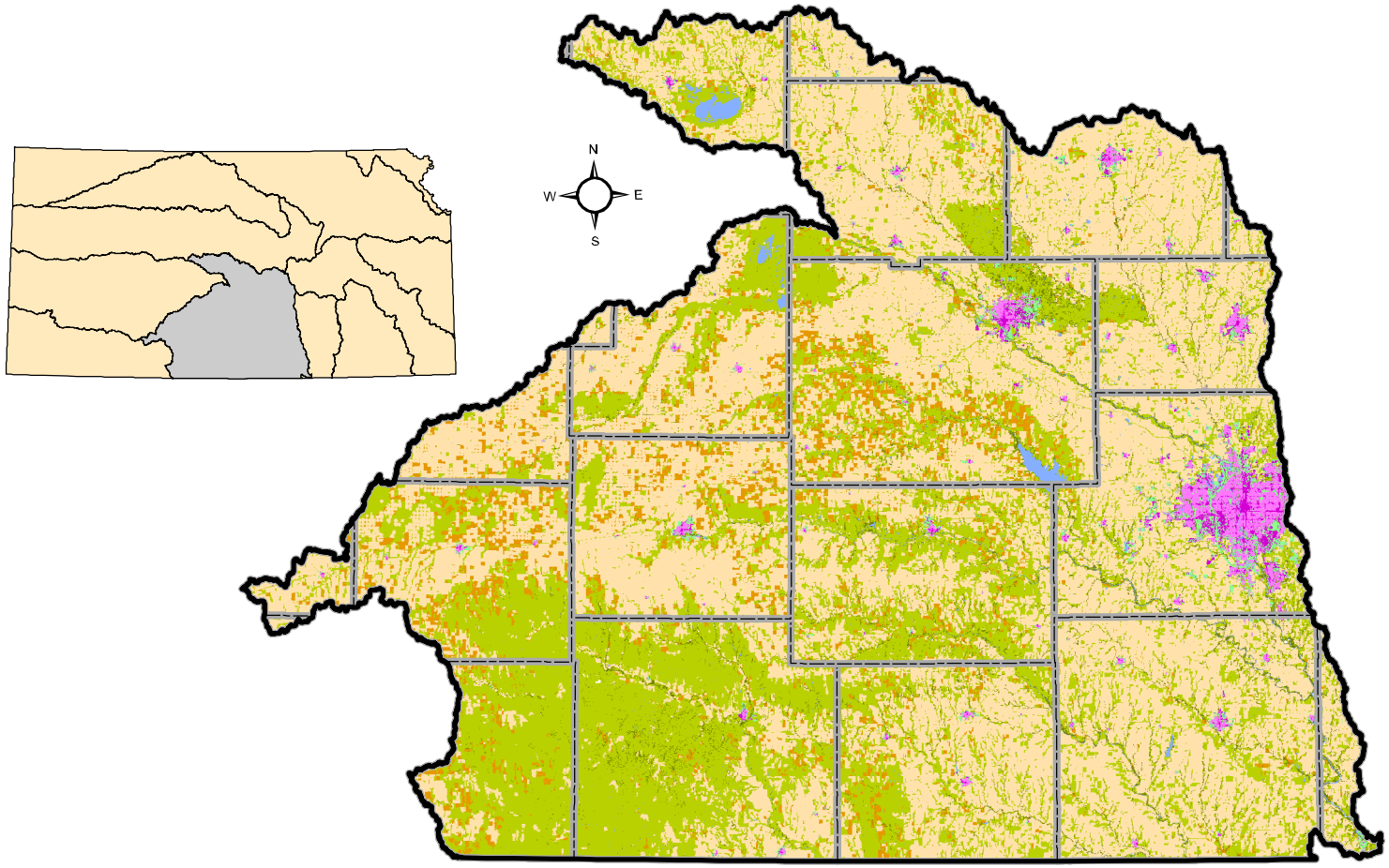
HUC-08 Subbasins



Kansas Water Office, May 2008

Lower 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

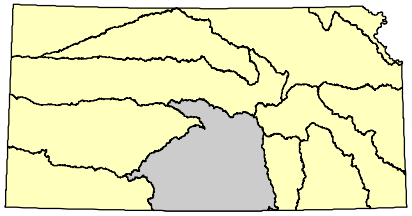
60 30 0 60 Miles

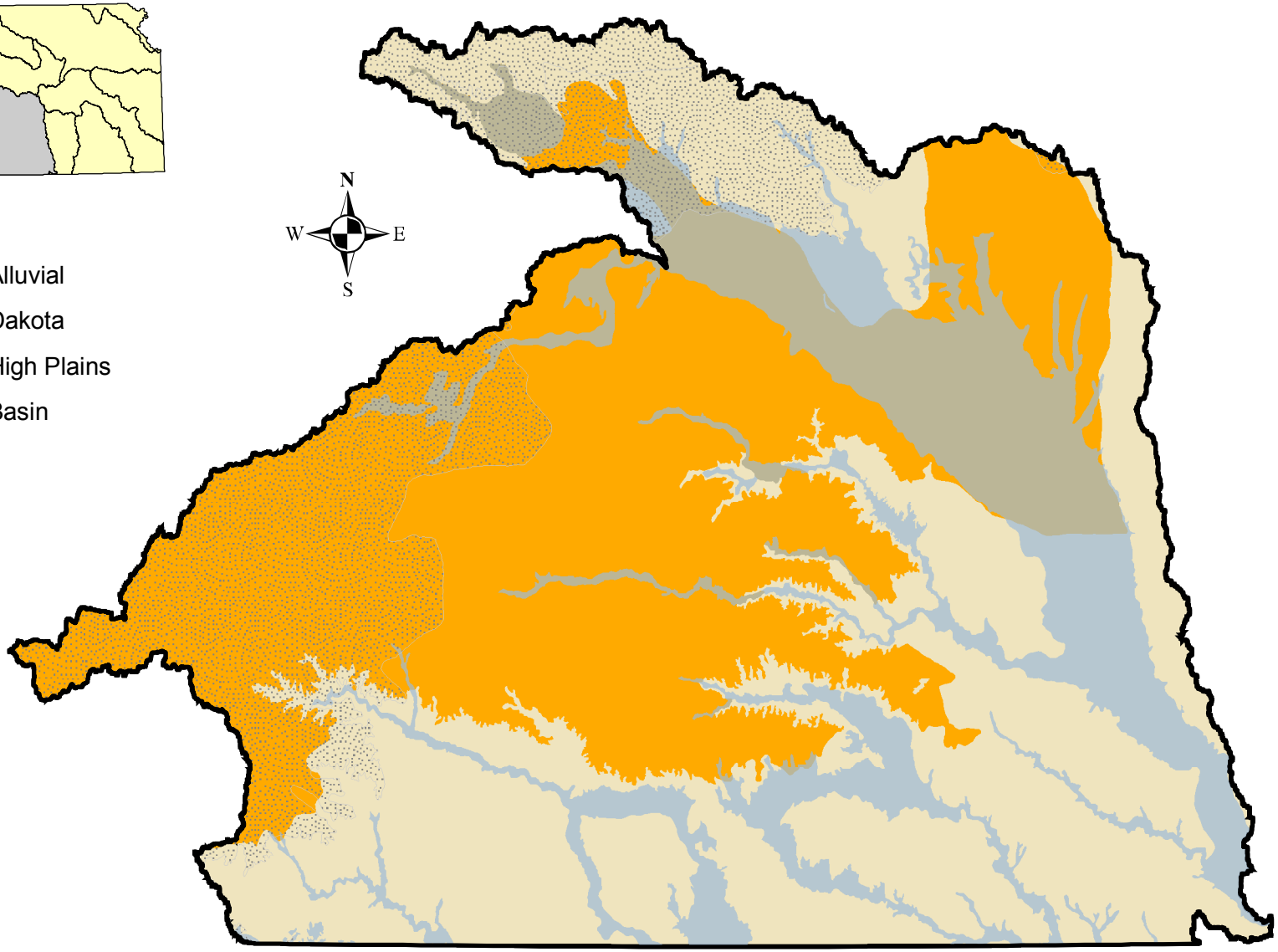
Source: Landsat 5 imagery, Kansas Applied Remote Sensing Program, University of Kansas

Kansas Water Office, October 2008

Lower Arkansas Basin

Aquifers



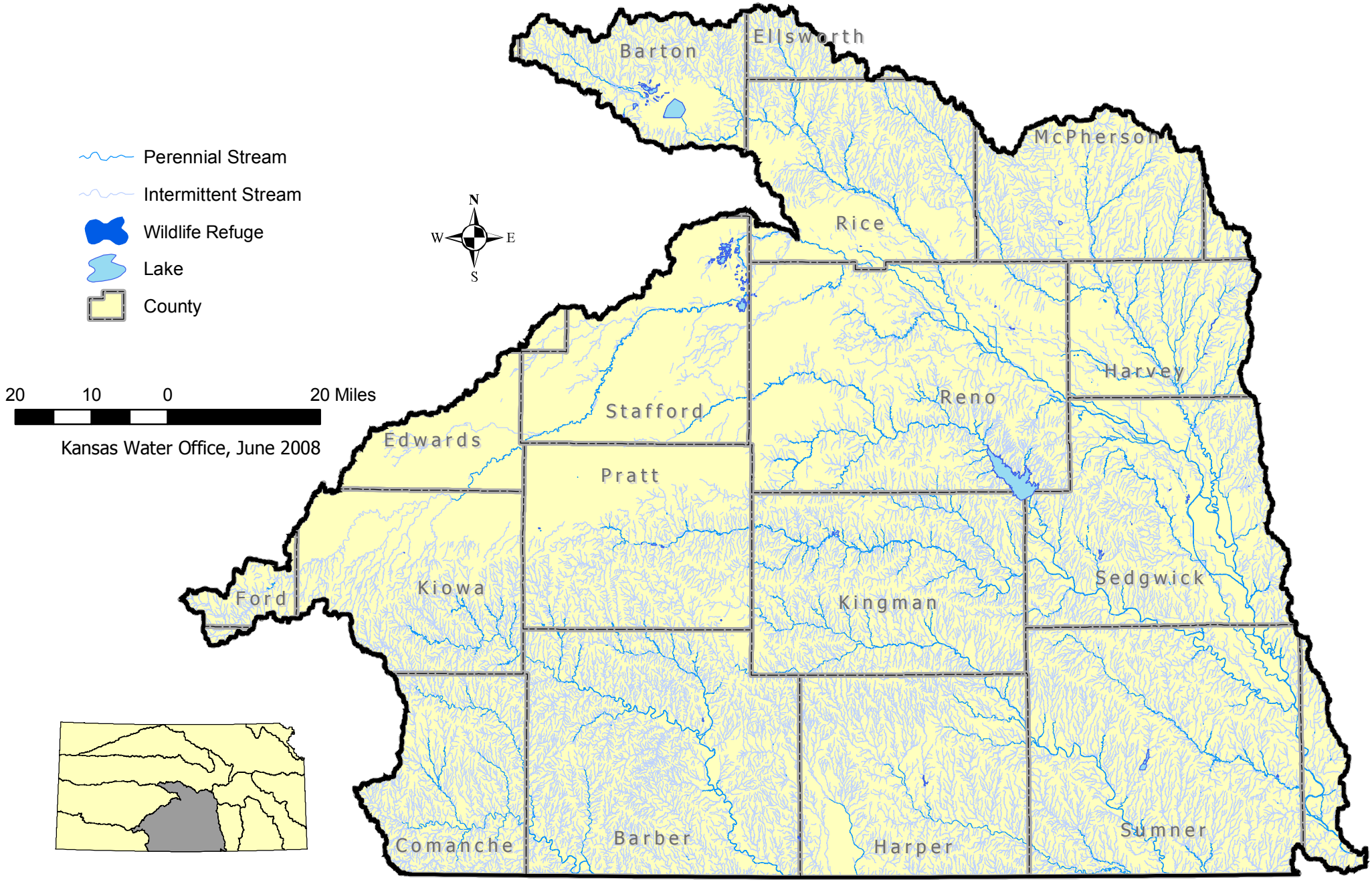


Data Source: U.S. Geological Survey
Prepared for Kansas Water Plan 2008

0 15 30 60 Miles

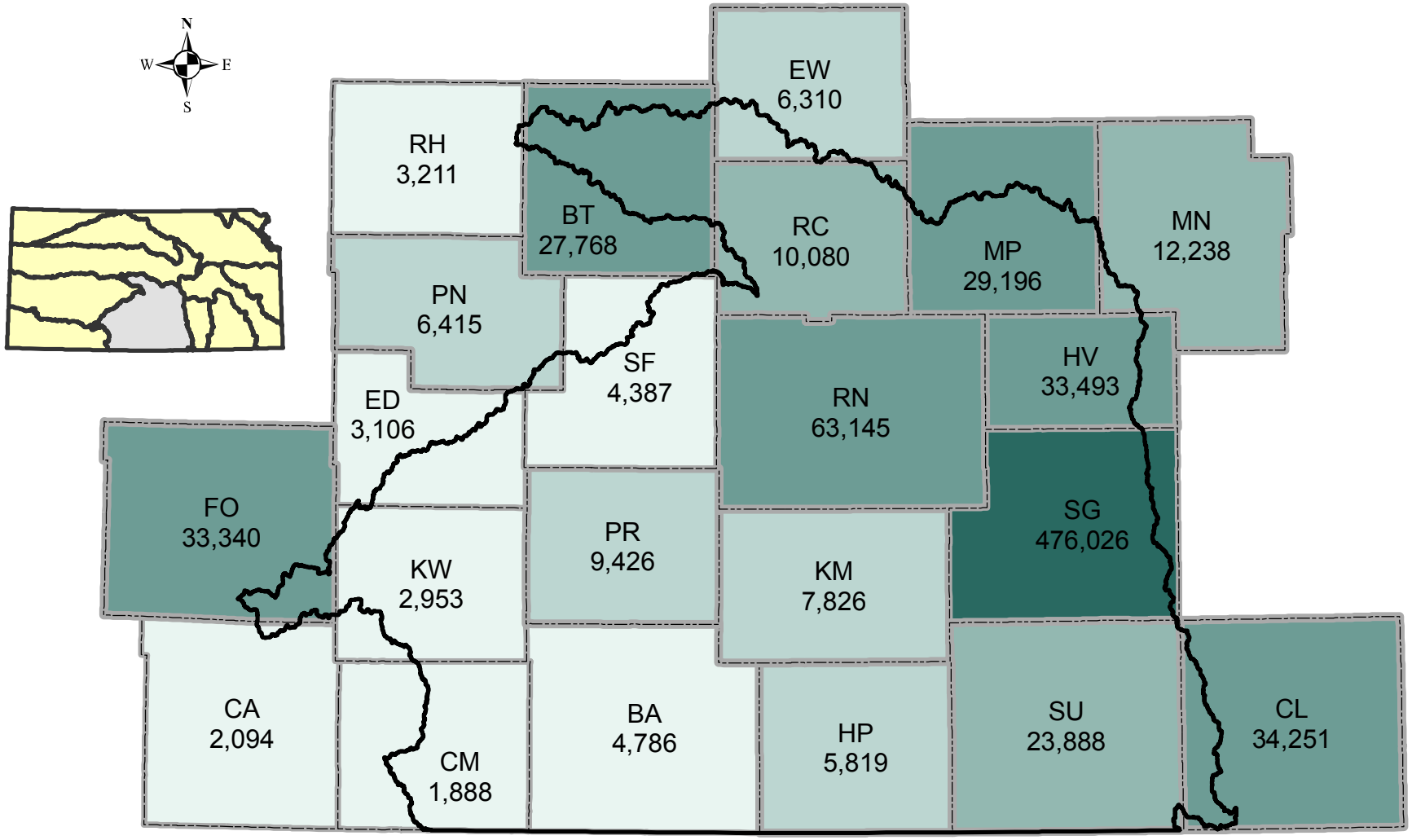
Lower Arkansas Basin

Surface Water



Lower Arkansas Basin

2007 Population Estimates by County



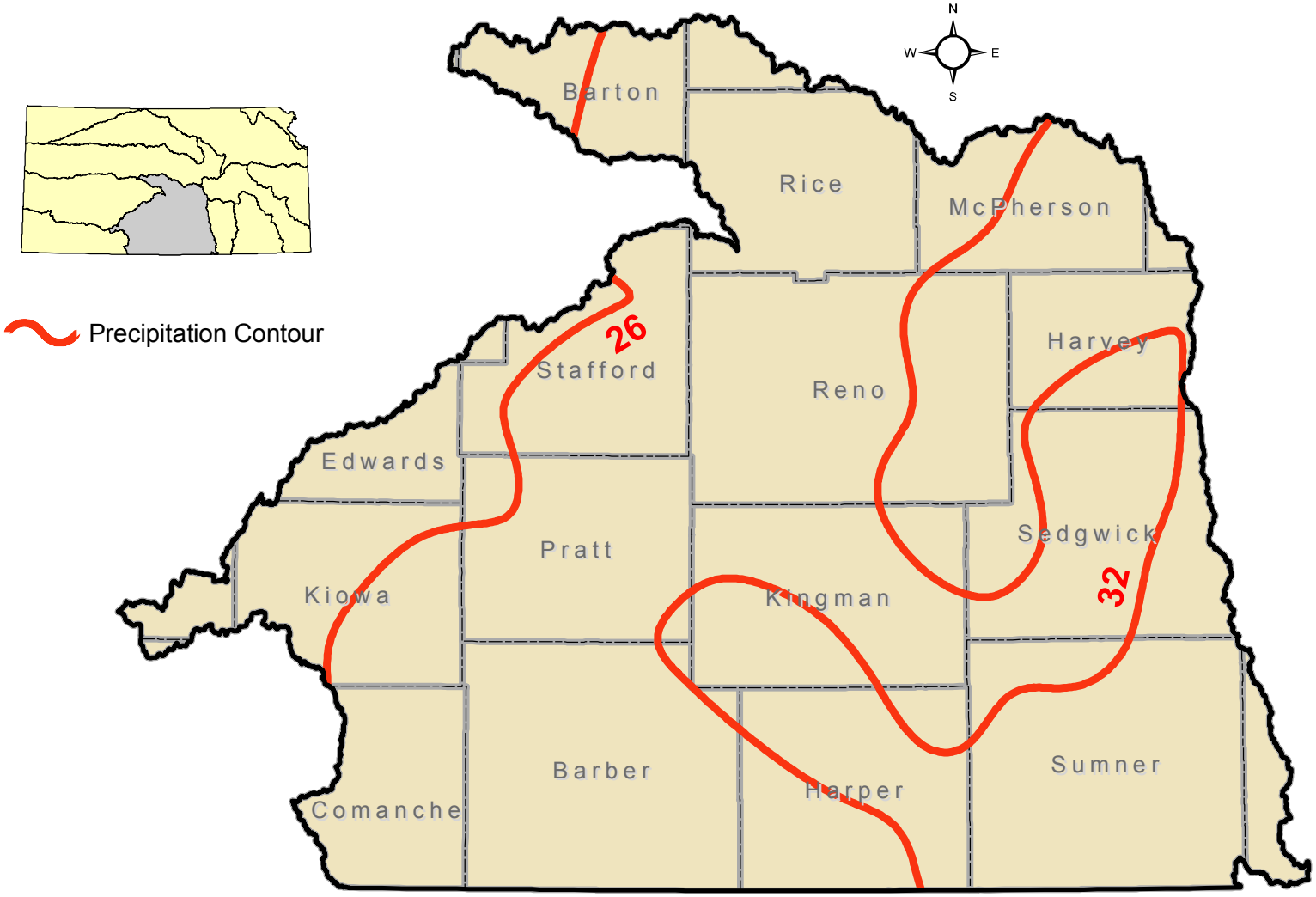
0 15 30 60 90 Miles

Data Sources:
Kansas Division of Budget, July 1, 2008

Prepared for Kansas Water Plan 2008

Lower Arkansas Basin

Precipitation



40 20 0 40 Miles

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

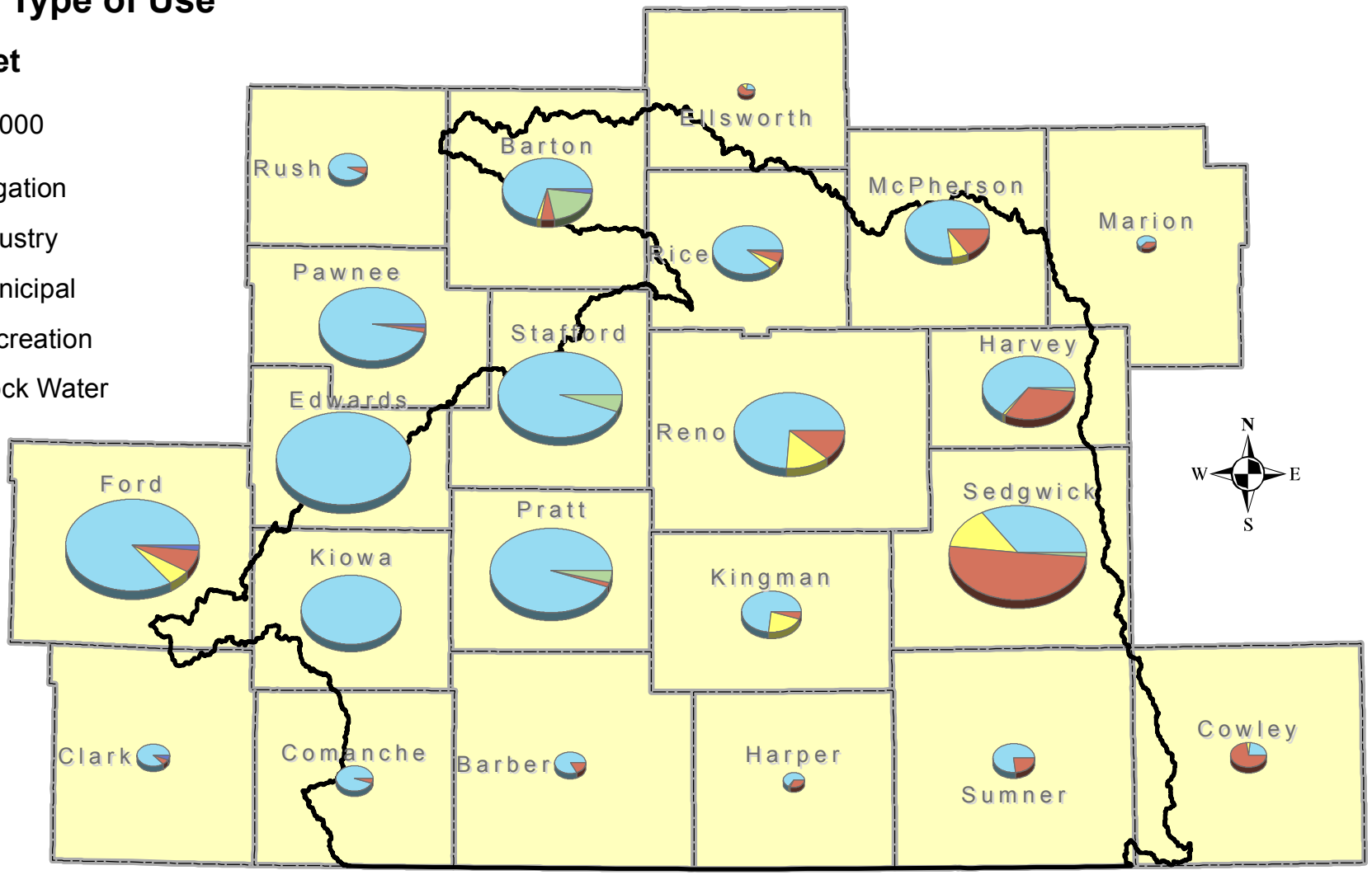
Lower Arkansas Basin

2006 Water Use By County

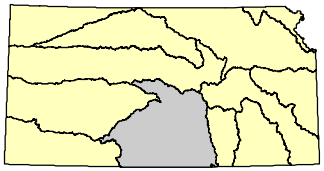
Water Use by Type of Use

Acre Feet

- 33,000
- Irrigation
- Industry
- Municipal
- Recreation
- Stock Water



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

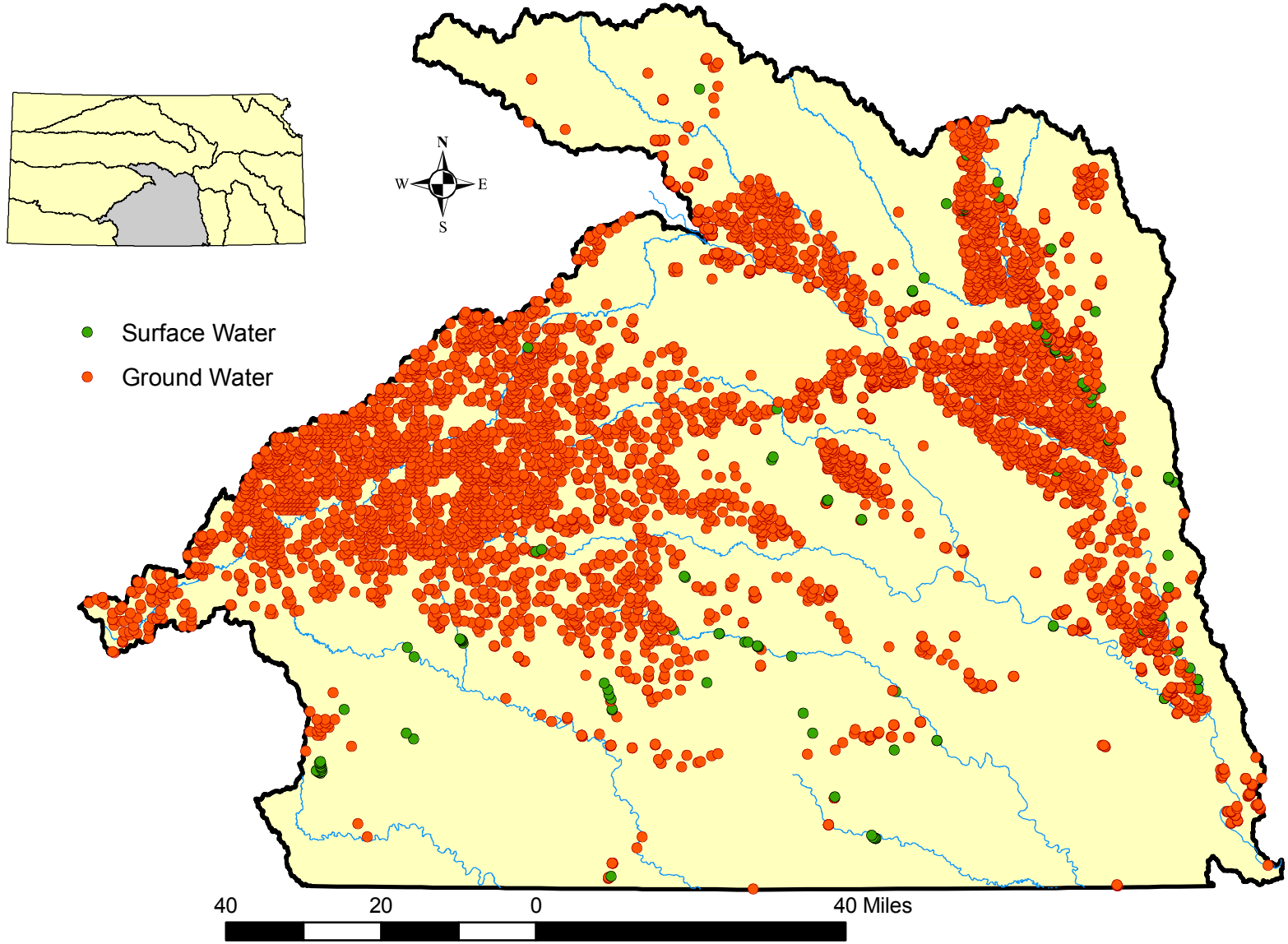


30 15 0 30 Miles

Kansas Water Office May 2008

Lower Arkansas Basin

Irrigation Points of Diversion

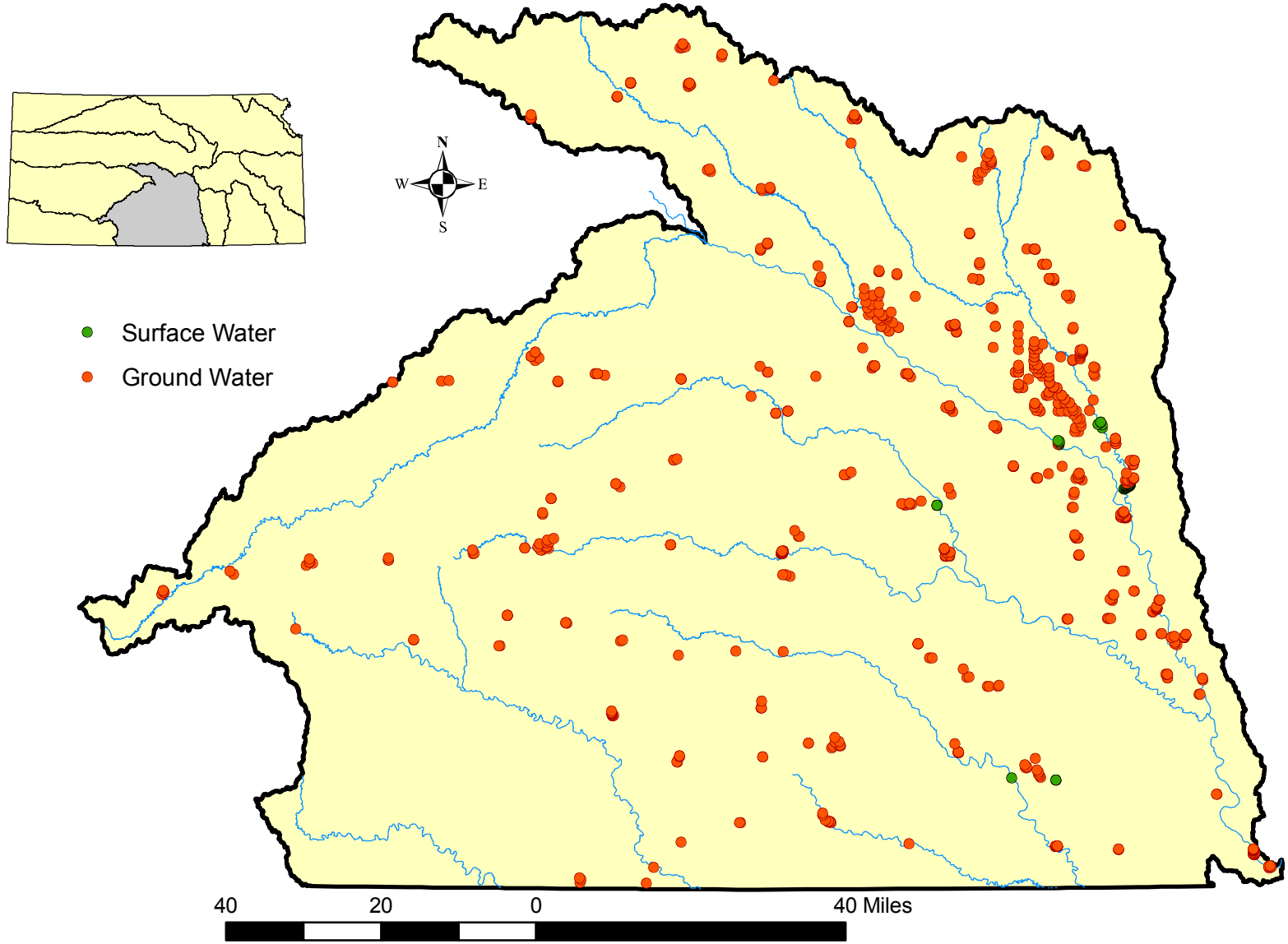


Data Source: Kansas Department of Agriculture, November 2008

Prepared for Kansas Water Plan 2008

Lower Arkansas Basin

Municipal Points of Diversion

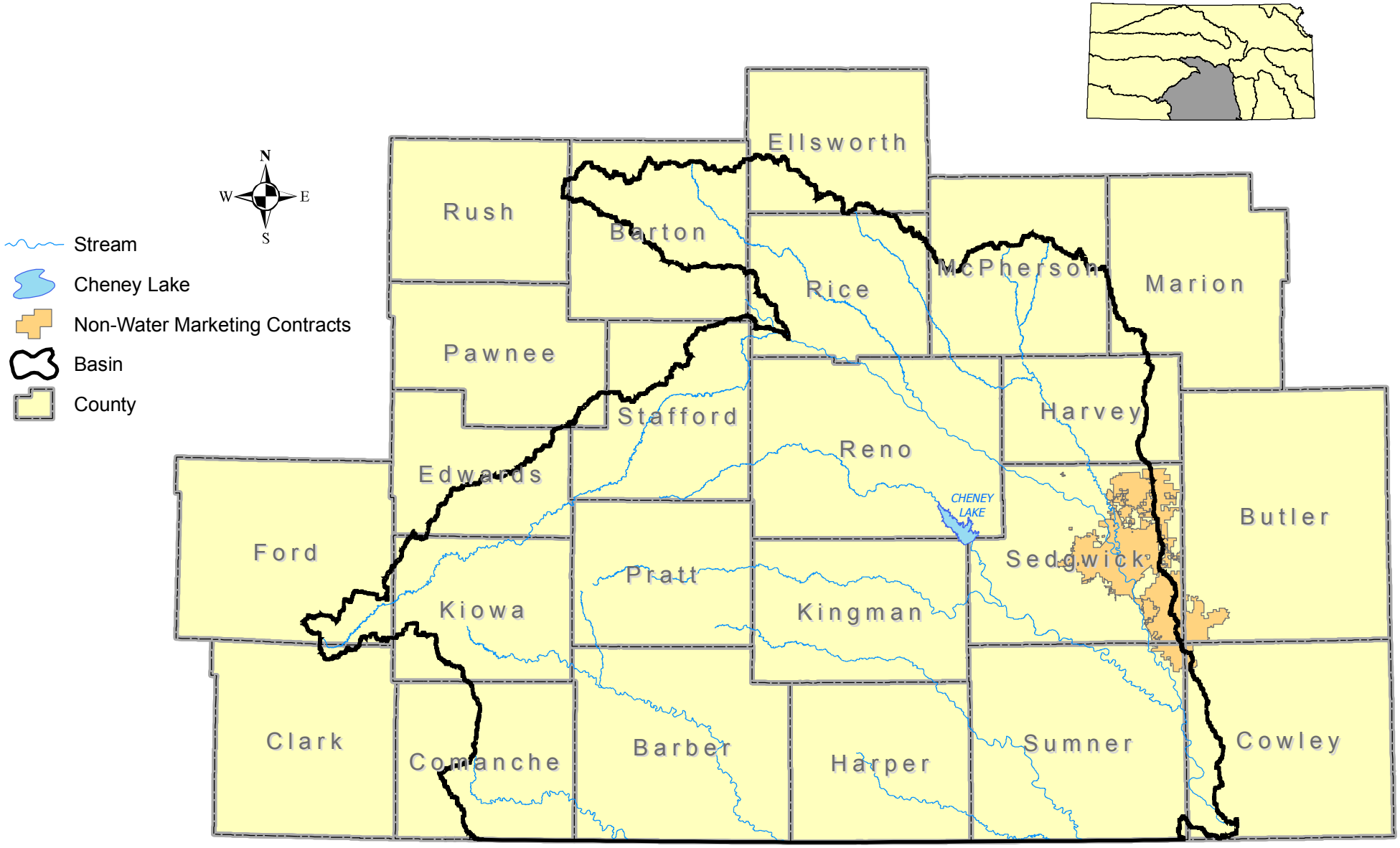


Data Source: Kansas Department of Agriculture, November 2008

Prepared for Kansas Water Plan 2008

Lower Arkansas Basin

Federal Lake Storage Customers

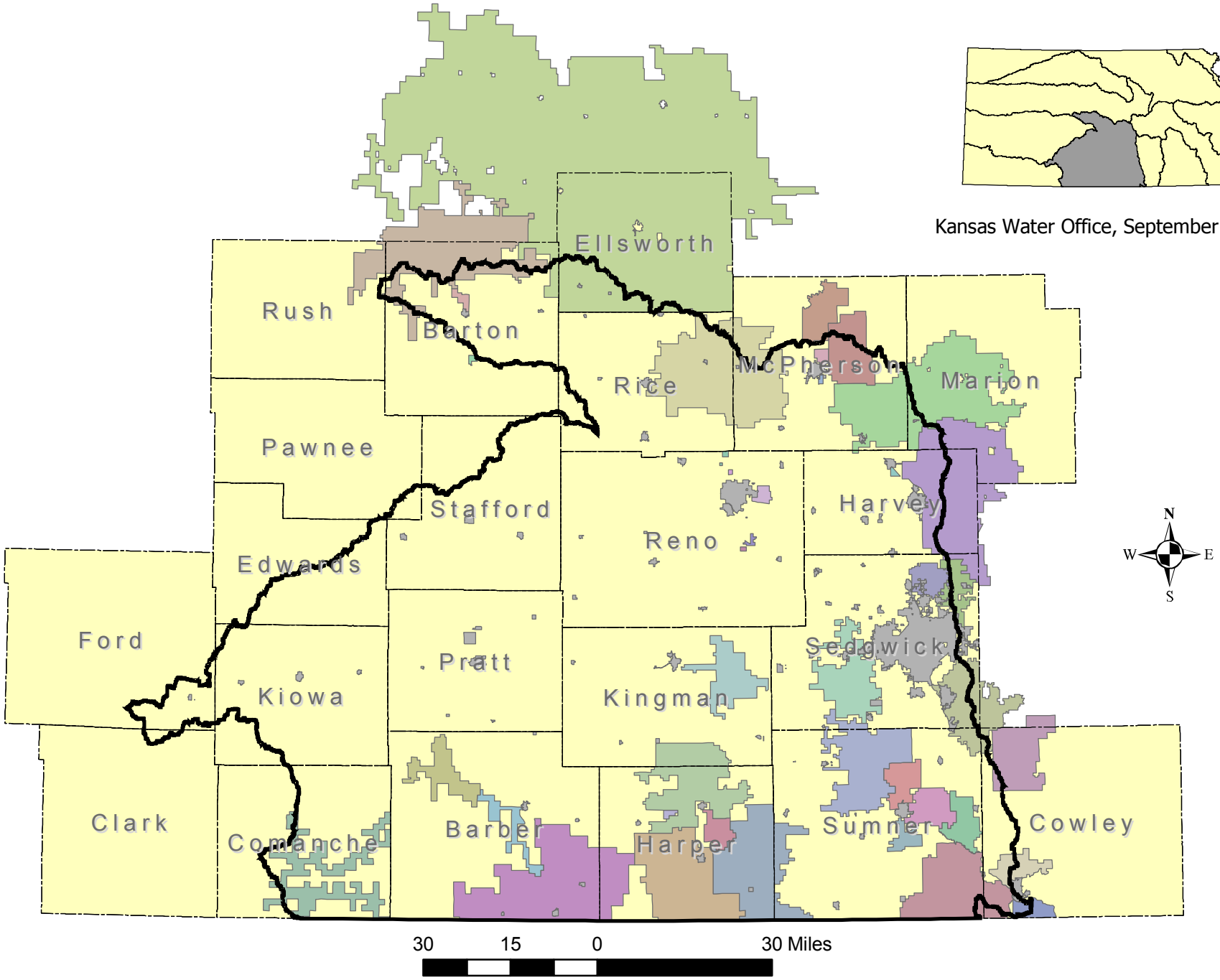


30 15 0 30 Miles

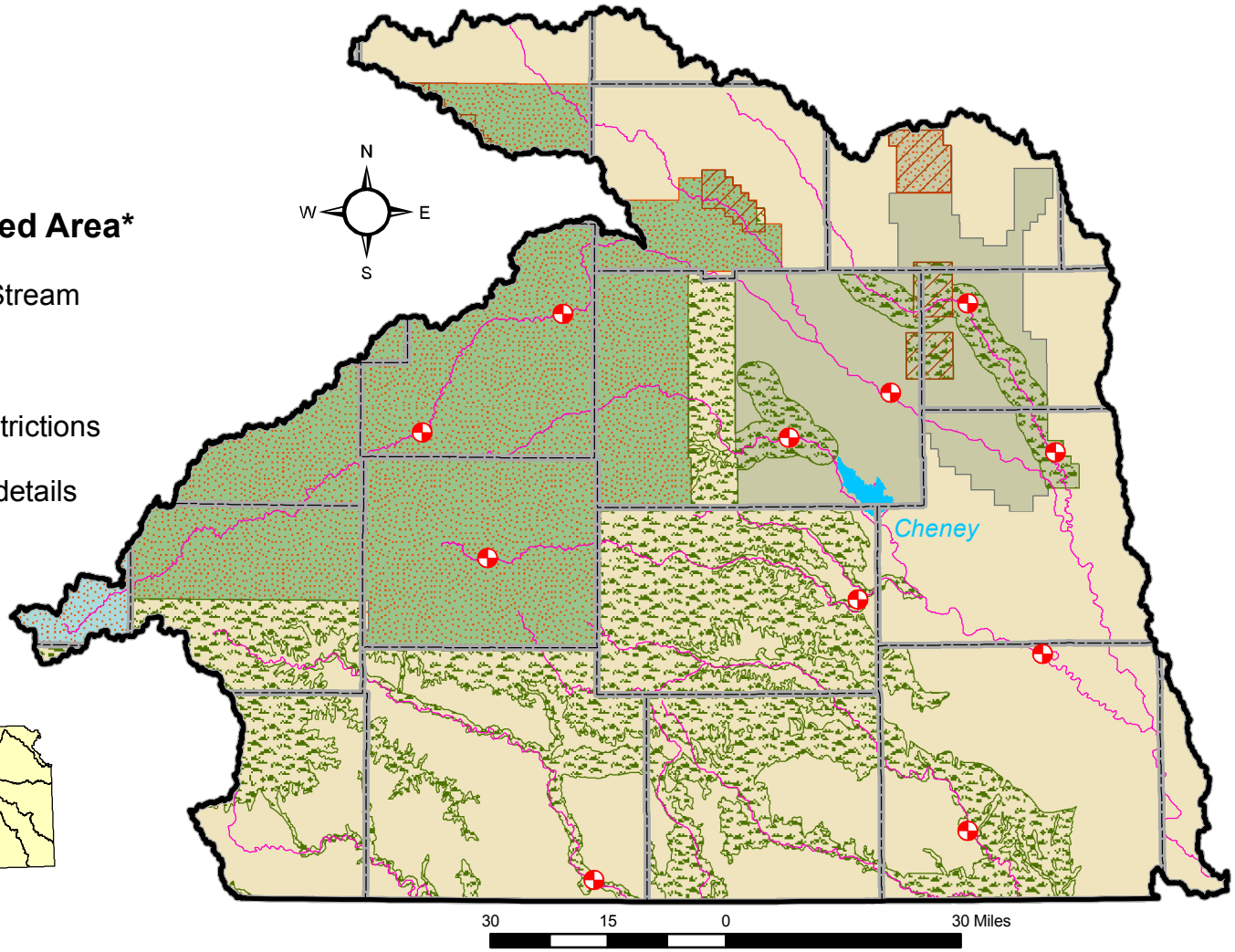
Kansas Water Office, September 2008

Lower Arkansas Basin

Public Water Suppliers



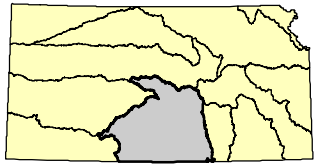
Lower Arkansas Basin
Water Management



Closed or Restricted Area*

- Restricted Stream
- Closed
- Special Restrictions

* See Regulation for details



- Minimum Desirable Streamflow Gage
- Intensive Groundwater Use Control Area (IGUCA) or Special Water Quality Use Area (SWQUA)
- Equus Beds Groundwater Management District (GMD) #2
- Southwest Kansas Groundwater Management District (GMD) #3
- Big Bend Groundwater Management District (GMD) #5

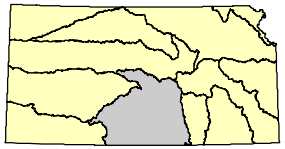
Source:
Kansas Department of Agriculture

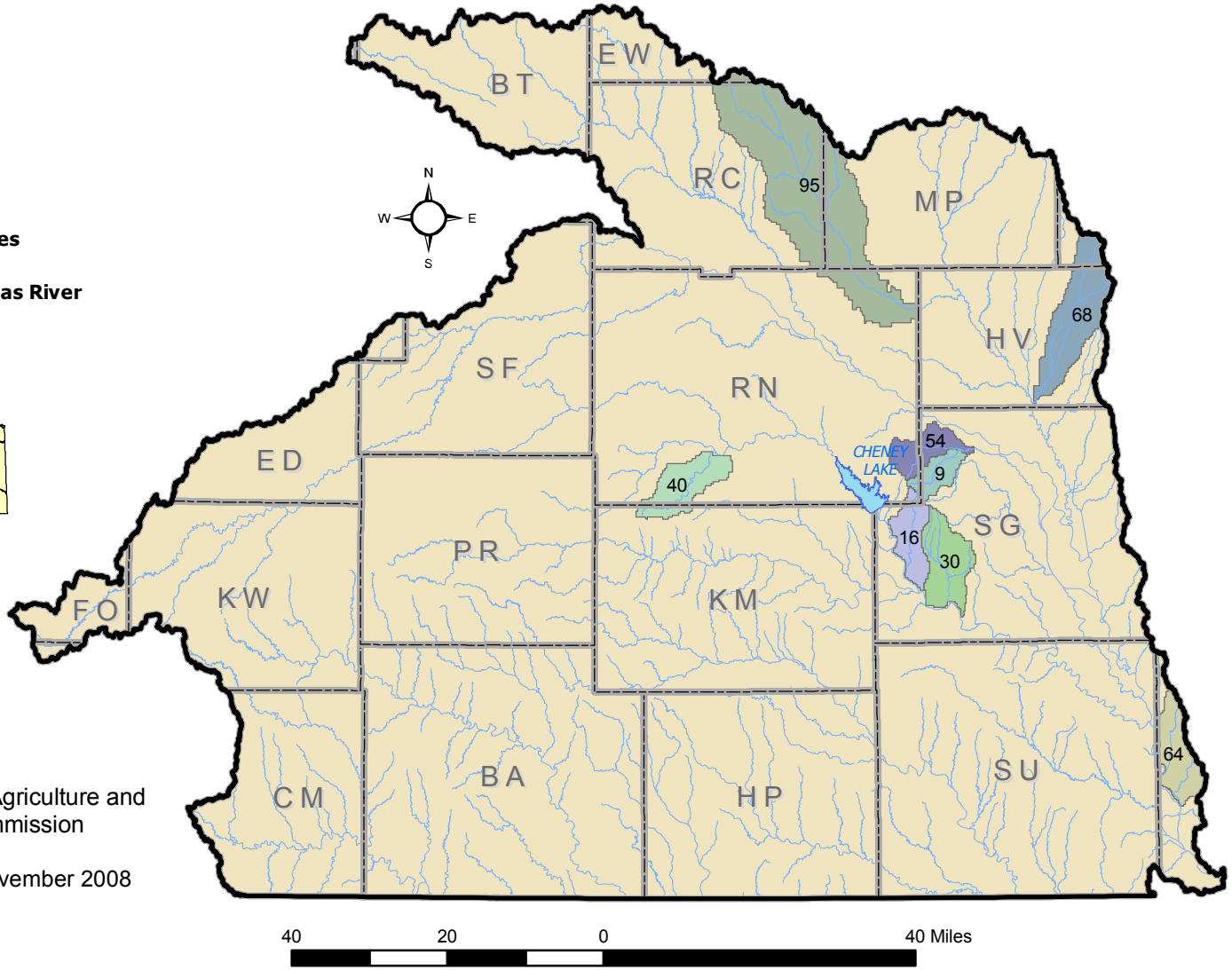
Kansas Water Office, November 2008

Lower Arkansas Basin

Watershed Districts

ID	Name
9	Andale
16	Spring Creek
30	Clear Creek
40	Goose Creek
54	Mount Hope
64	Ark-River Tributaries
68	Sand Creek
95	Upper Little Arkansas River



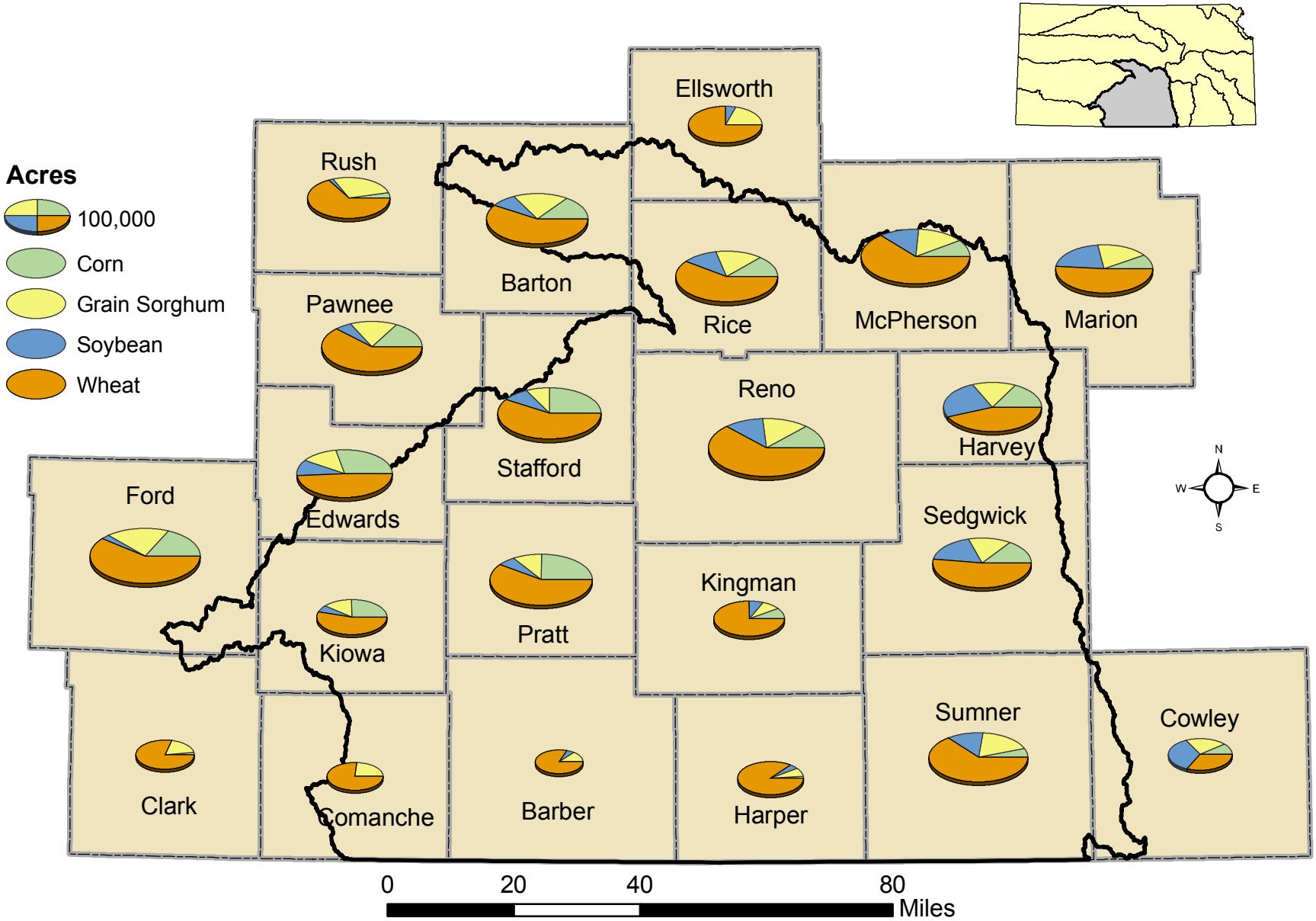


Source:
Kansas Department of Agriculture and
State Conservation Commission

Kansas Water Office, November 2008

Lower Arkansas Basin

2007 Harvested Crop Inventory by County

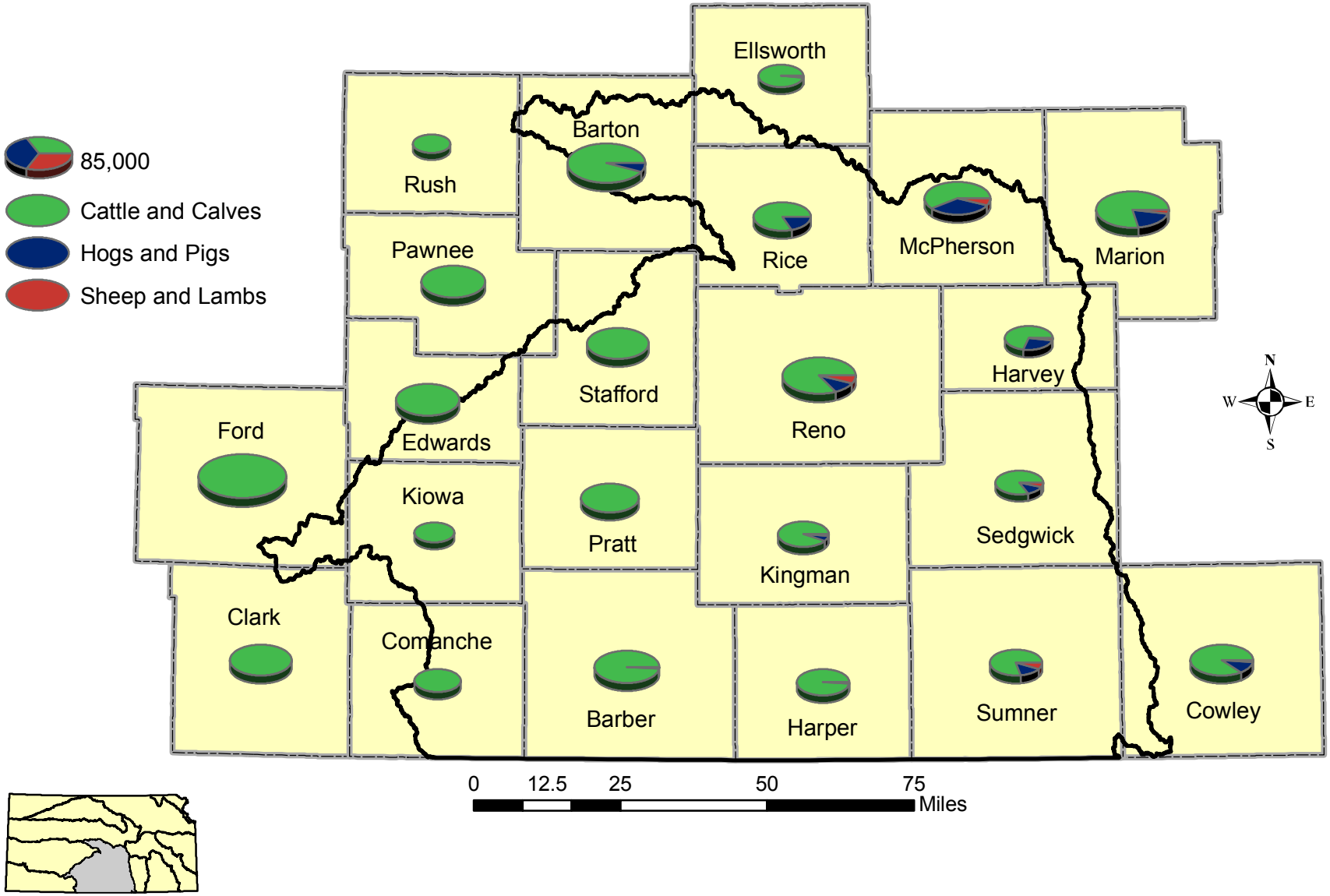


Data Sources: Kansas Agricultural Statistics

Prepared for Kansas Water Plan 2008

Lower Arkansas Basin

2002 Livestock Inventory by County



Note: Some data not shown to protect individual farm operations

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