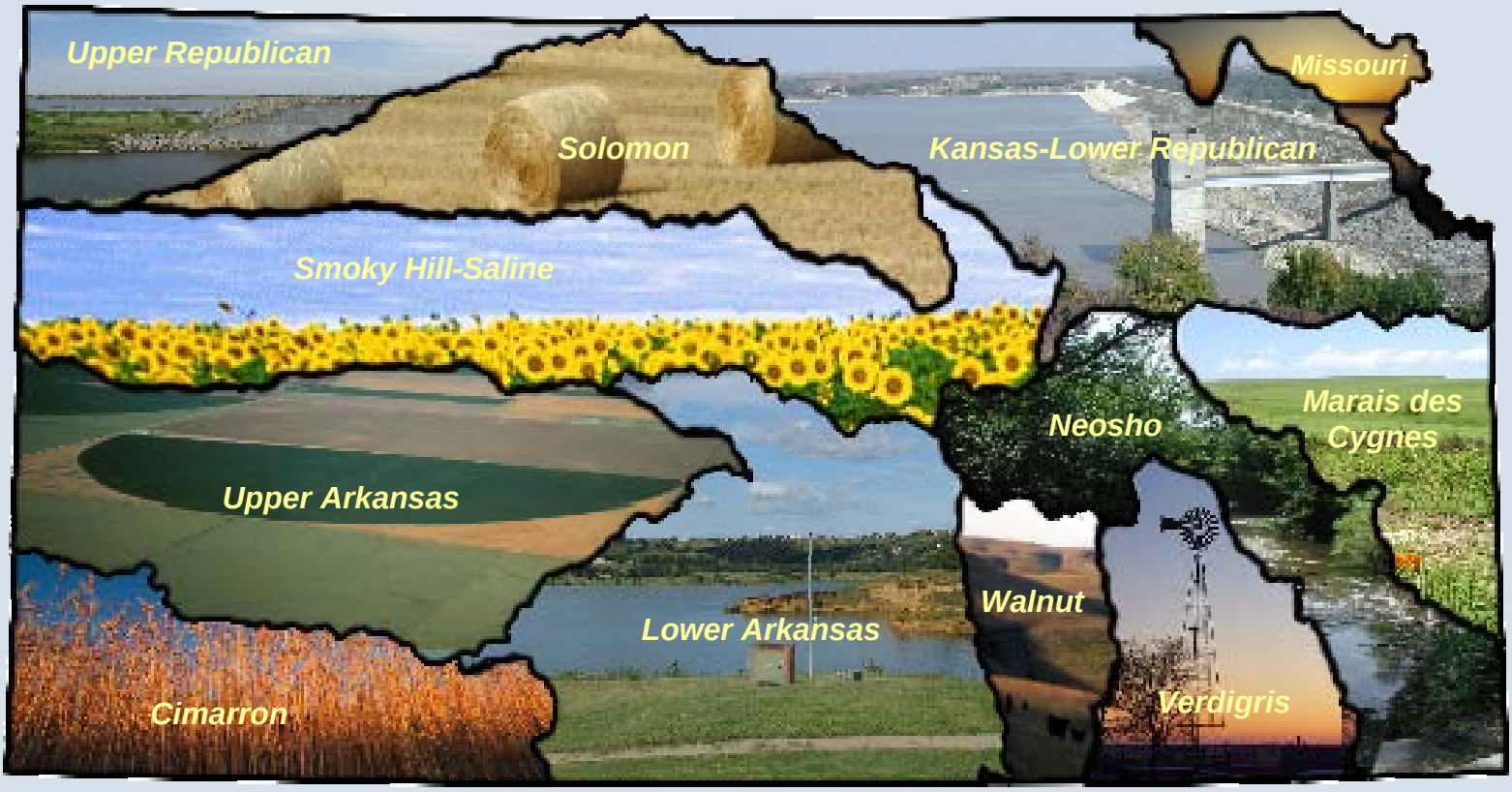
Kansas Water Plan



Atlas

Kansas Water Plan - Atlas
KLR - Table of Contents

Kansas-Lower Republican 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

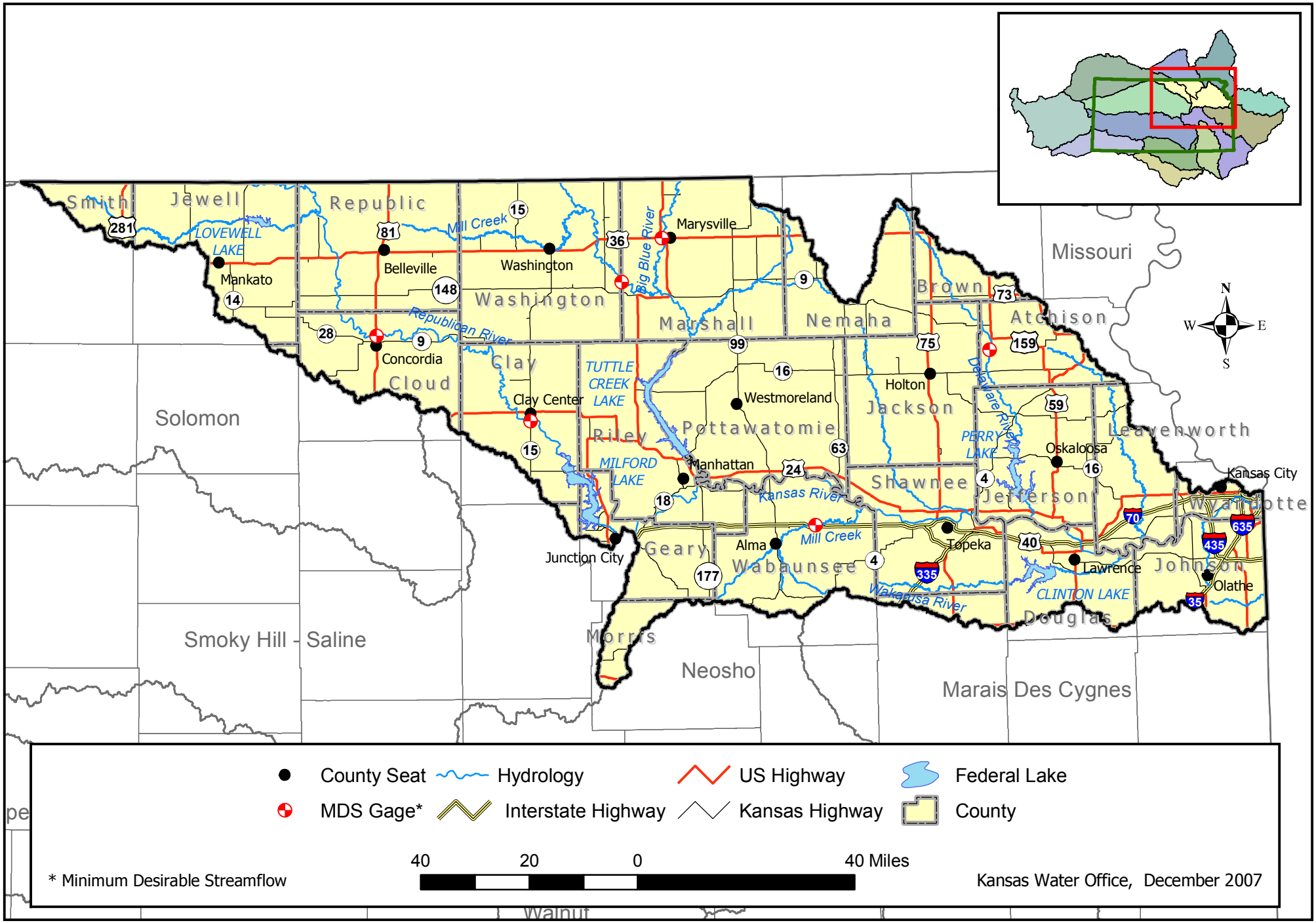
Water Management

Watershed Districts

Crop Inventory

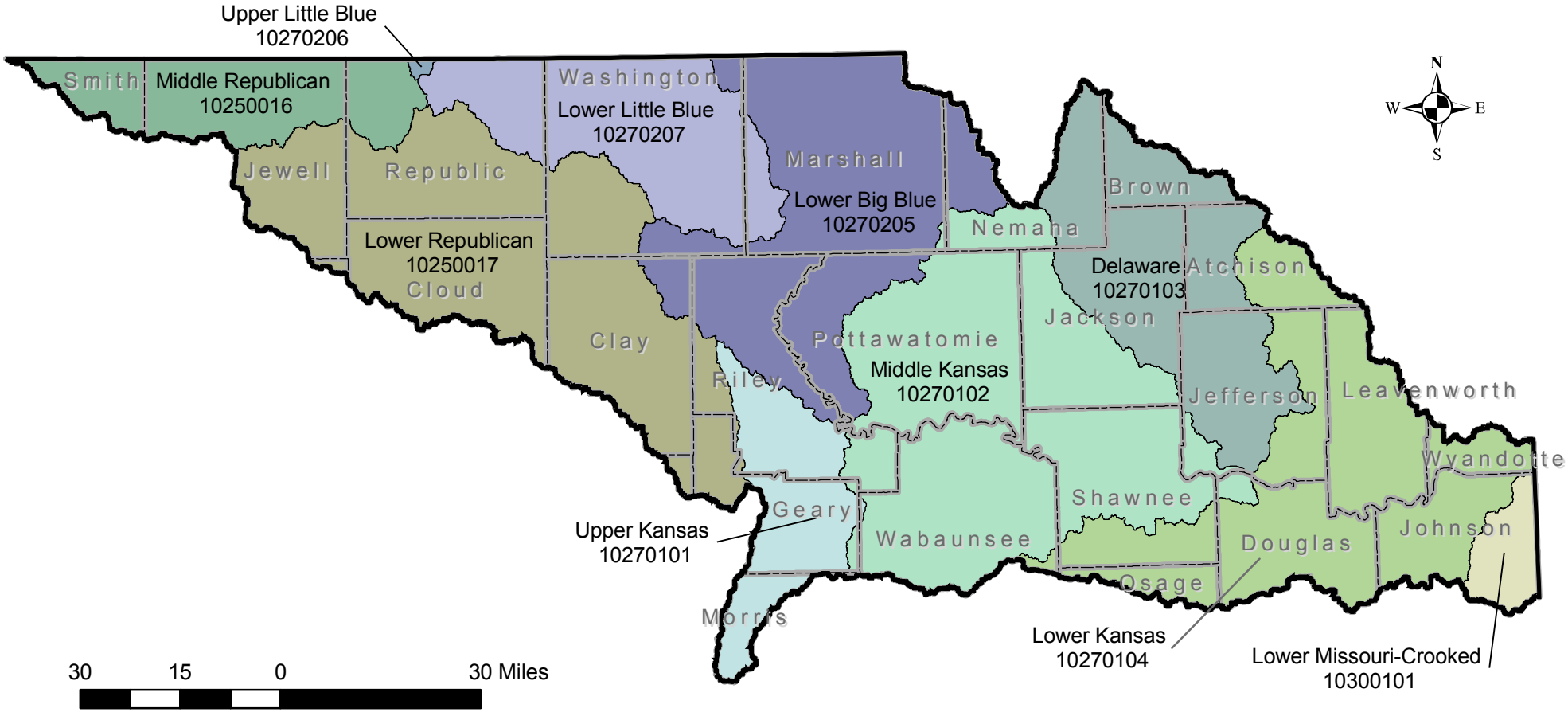
Livestock Inventory

Kansas-Lower Republican Basin

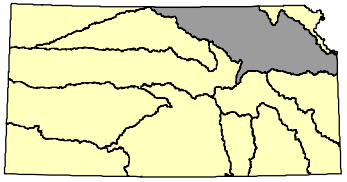


Kansas-Lower Republican Basin

HUC-08 Subbasins



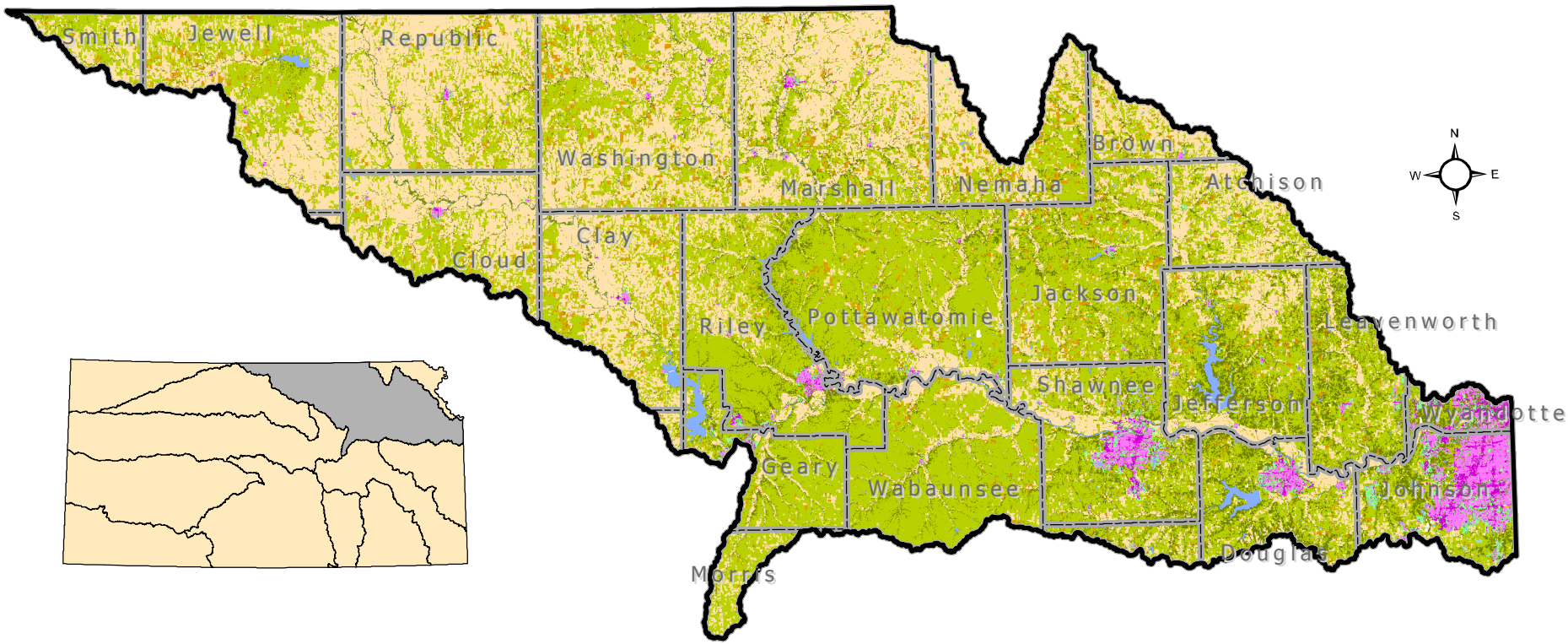
- Delaware
- Lower Big Blue
- Lower Kansas
- Lower Little Blue
- Lower Missouri-Crooked
- Lower Republican
- Middle Kansas
- Middle Republican
- Upper Kansas
- Upper Little Blue



Kansas Water Office, May 2008

Kansas - Lower Republican 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

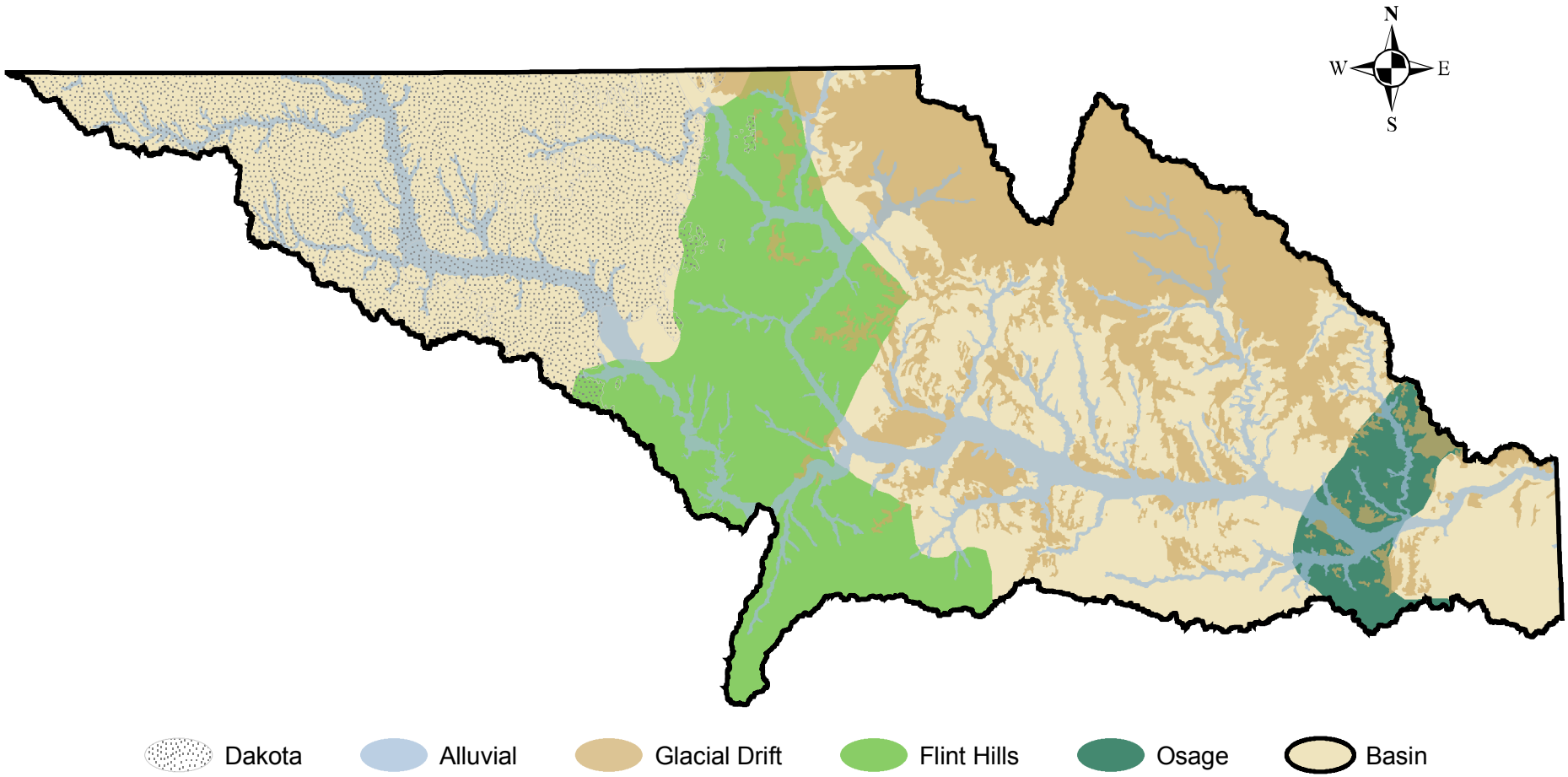
60 30 0 60 Miles

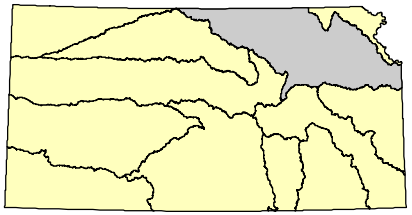
Source: Landsat 5 imagery, Kansas Applied Remote Sensing Program, University of Kansas

Kansas Water Office, October 2008

Kansas - Lower Republican Basin

Aquifers





0 15 30 60 Miles

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

Kansas-Lower Republican Basin

Surface Water

Perennial Stream

Intermittent Stream

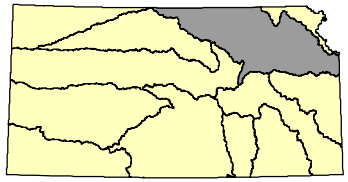
Lake

Basin

County

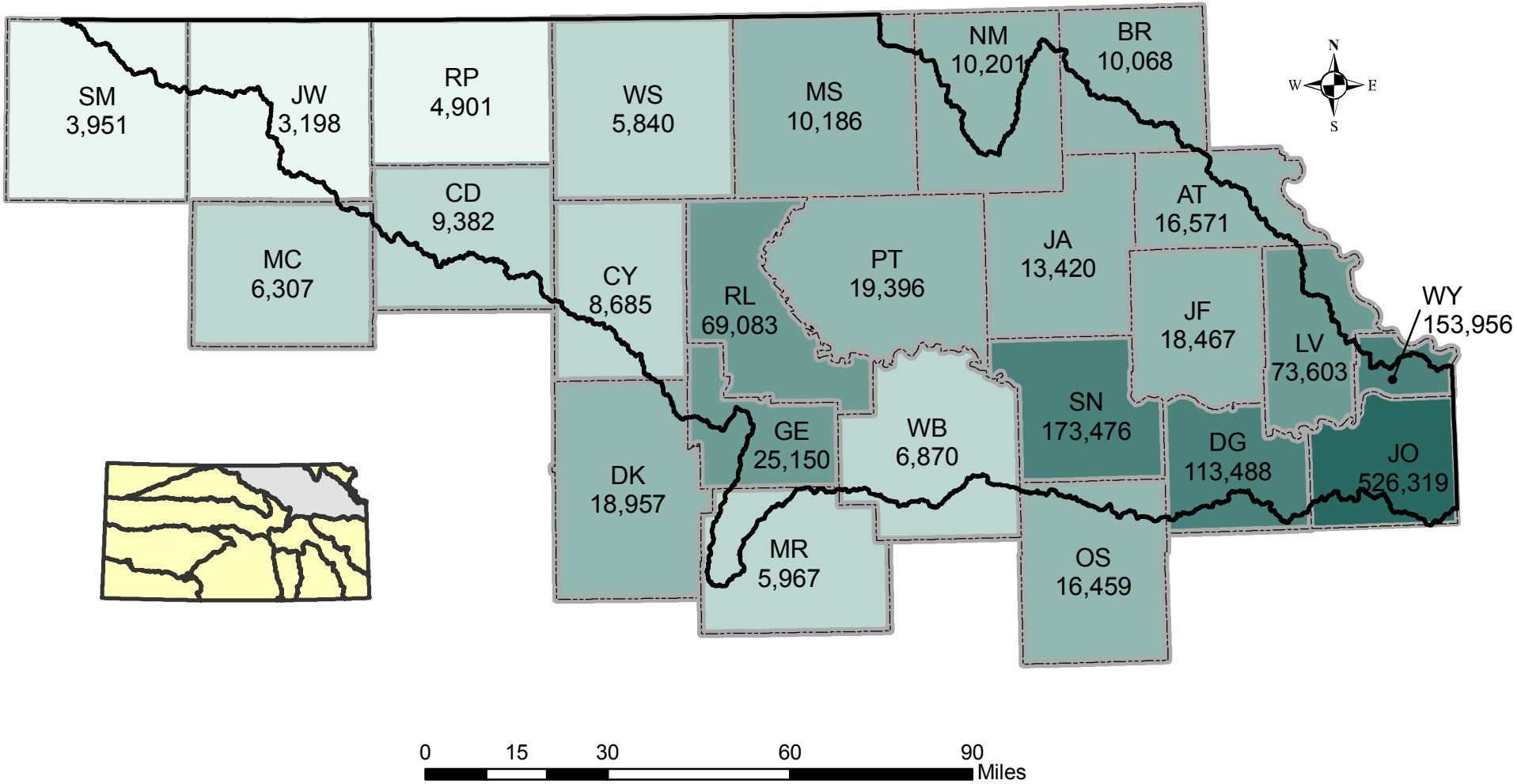
30 15 0 30 Miles

Kansas Water Office, January 2008



Kansas - Lower Republican Basin

2007 Population Estimates by County



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

Prepared for Kansas Water Plan 2008

Kansas-Lower Republican Basin

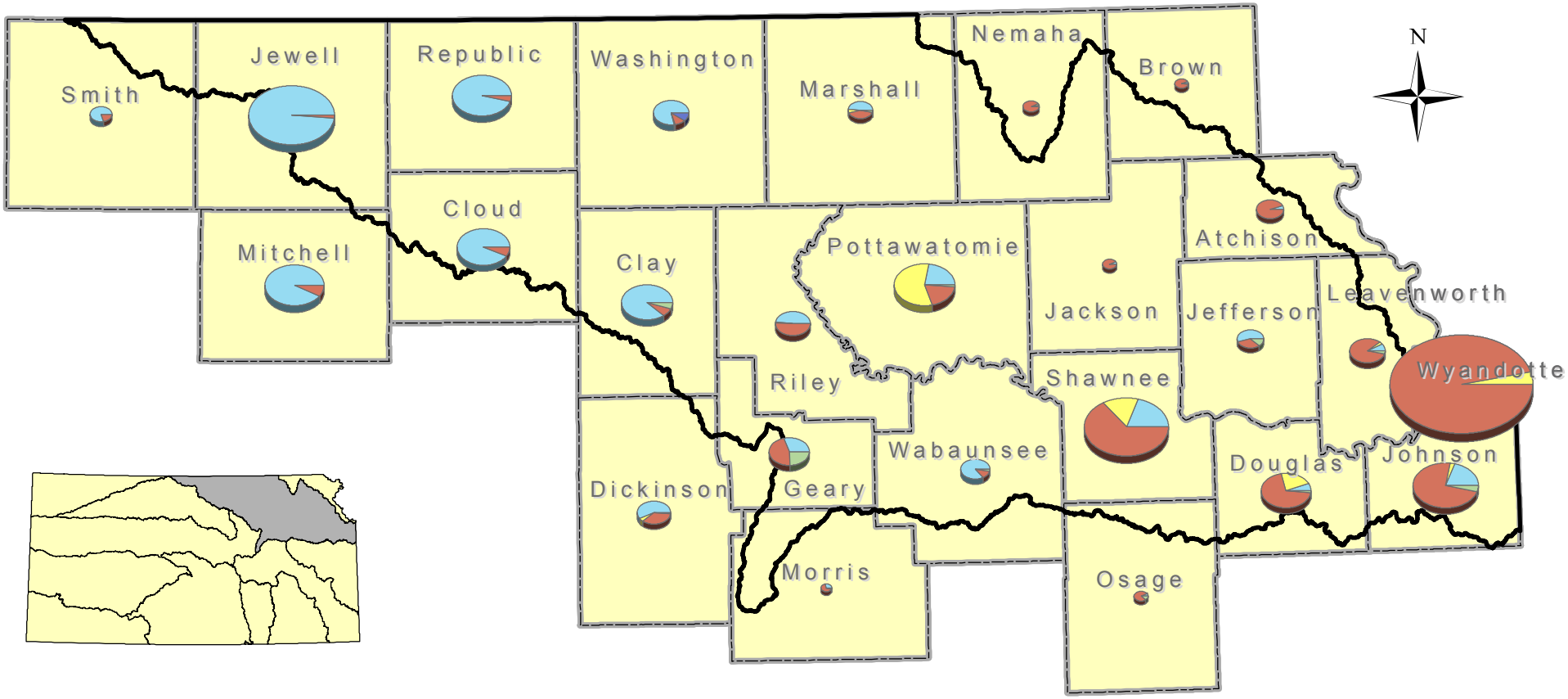
Precipitation

Precipitation Contour

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

Kansas - Lower Republican Basin

2006 Water Use By County



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

40 20 0 40 Miles

Kansas Water Office December 2007

Water Use by Type of Use

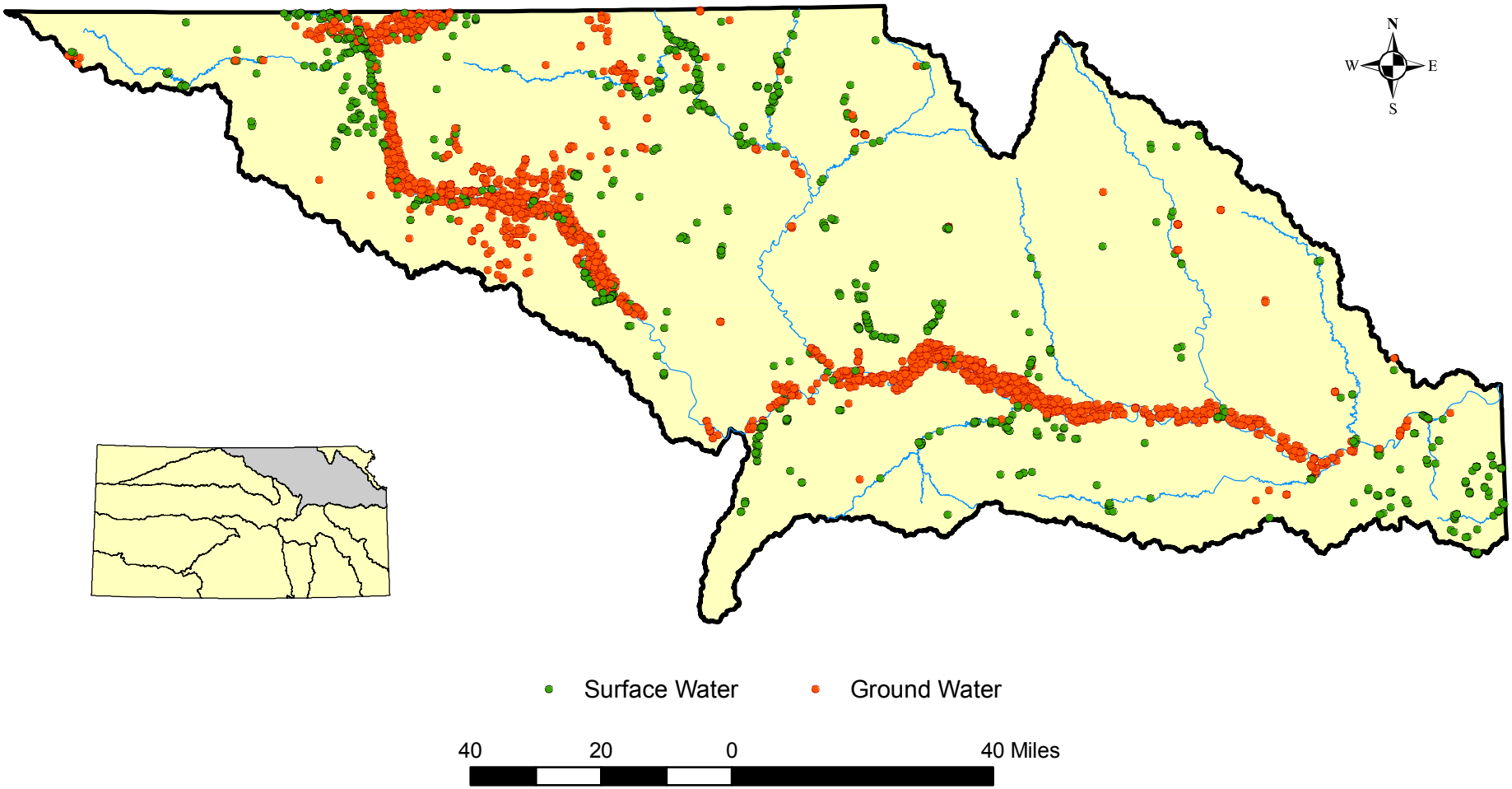
Acre Feet

33,000

Irrigation
Recreation
Industry
Stock Water
Municipal

Kansas - Lower Republican Basin

Irrigation Points of Diversion

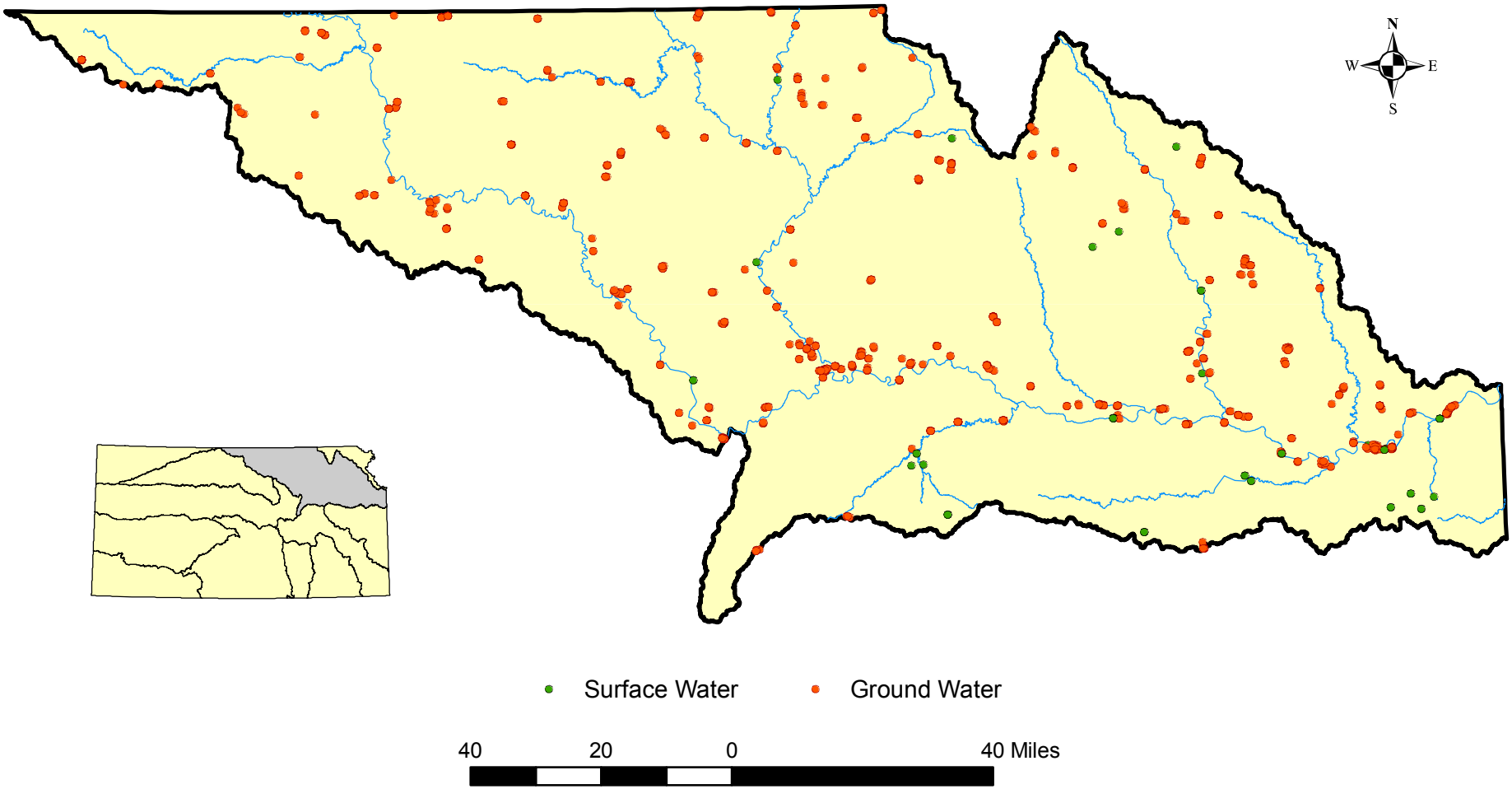


Data Source: Kansas Department of Agriculture, November 2008

Prepared for Kansas Water Plan 2008

Kansas - Lower Republican Basin

Municipal Points of Diversion

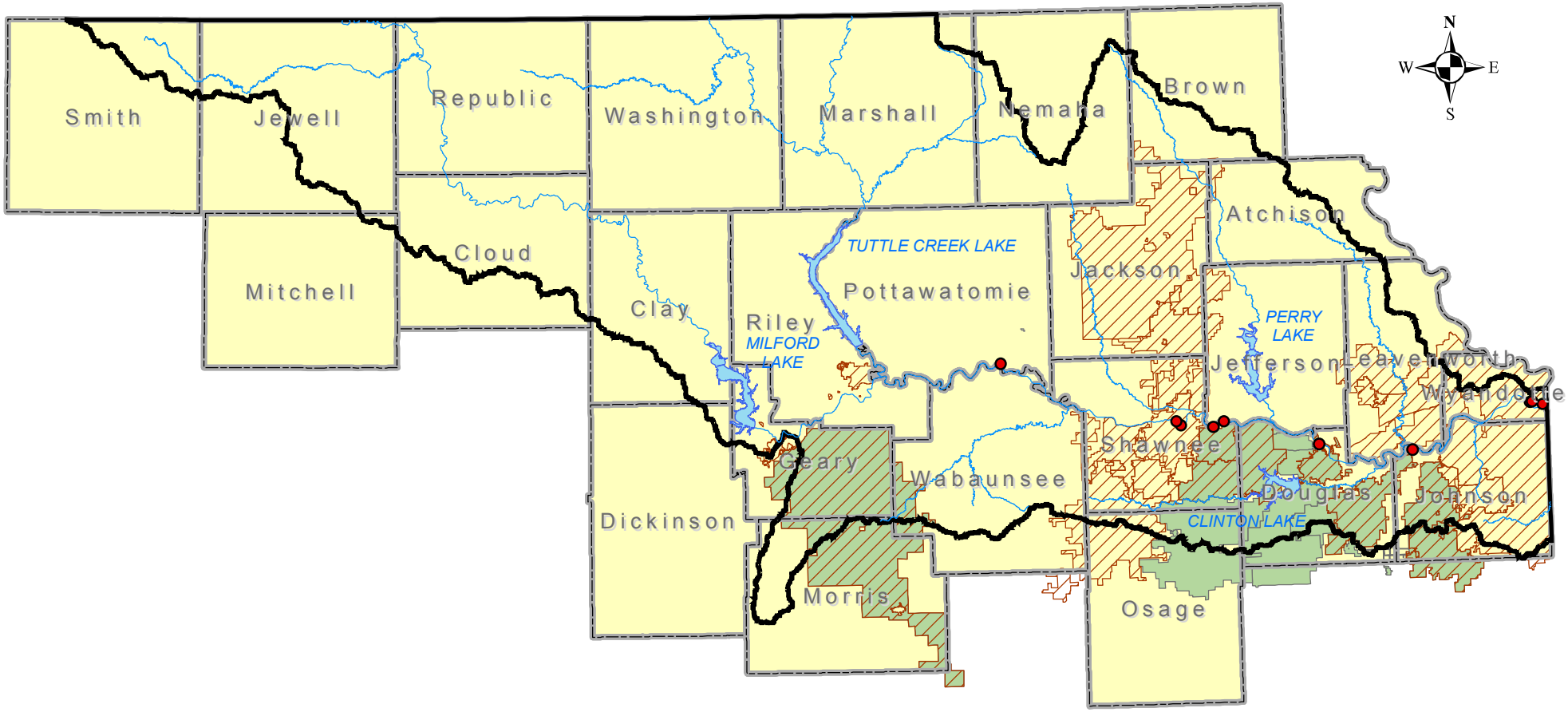


Data Source: Kansas Department of Agriculture, November 2008

Prepared for Kansas Water Plan 2008

Kansas-Lower Republican Basin

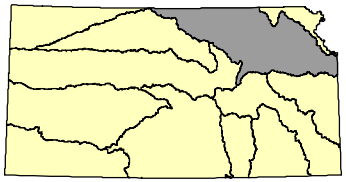
Federal Lake Storage Customers



AD Industry
Stream
Market/AD Lake
Water Marketing
Water Assurance District
Basin
County

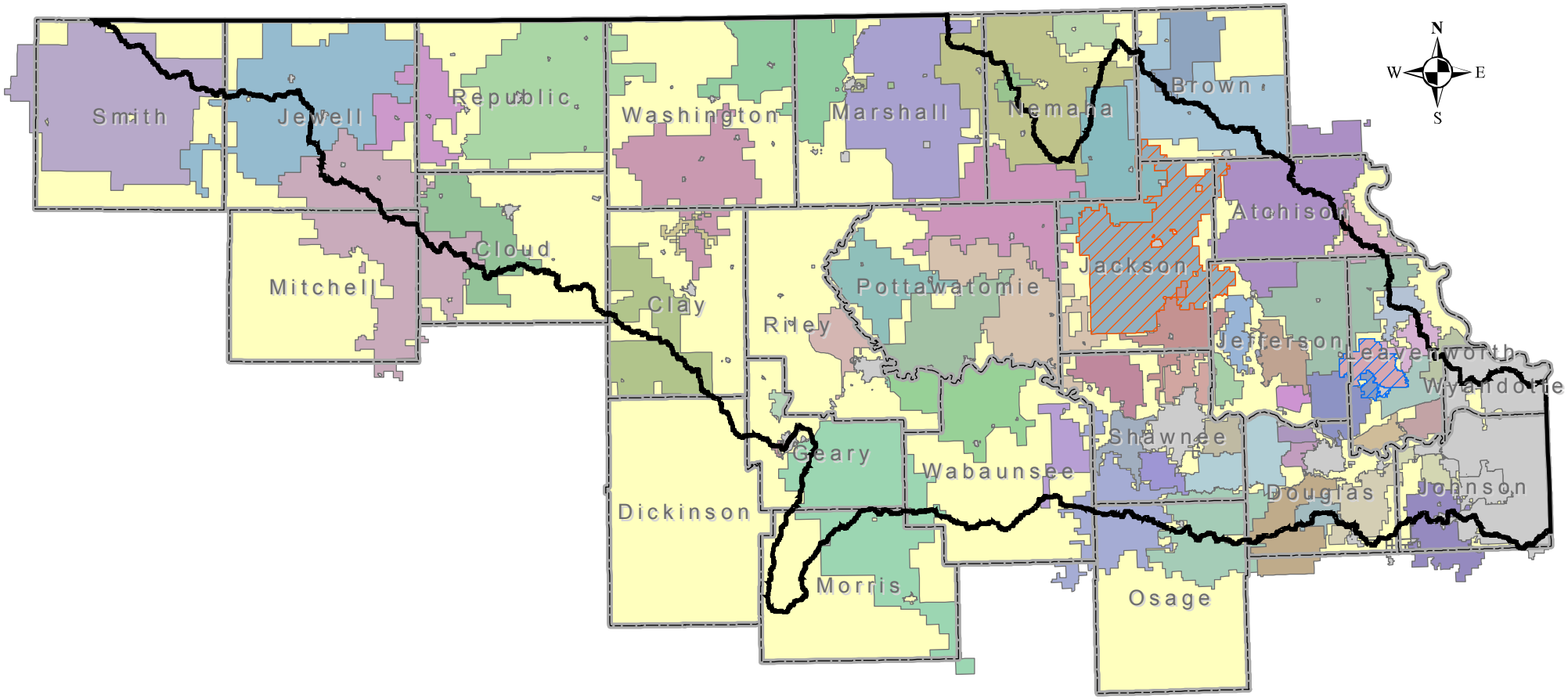
30 15 0 30 Miles

Kansas Water Office, January 2008



Kansas-Lower Republican Basin

Public Water Suppliers

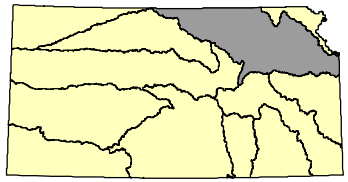


Public Wholesale Water Supply District #06

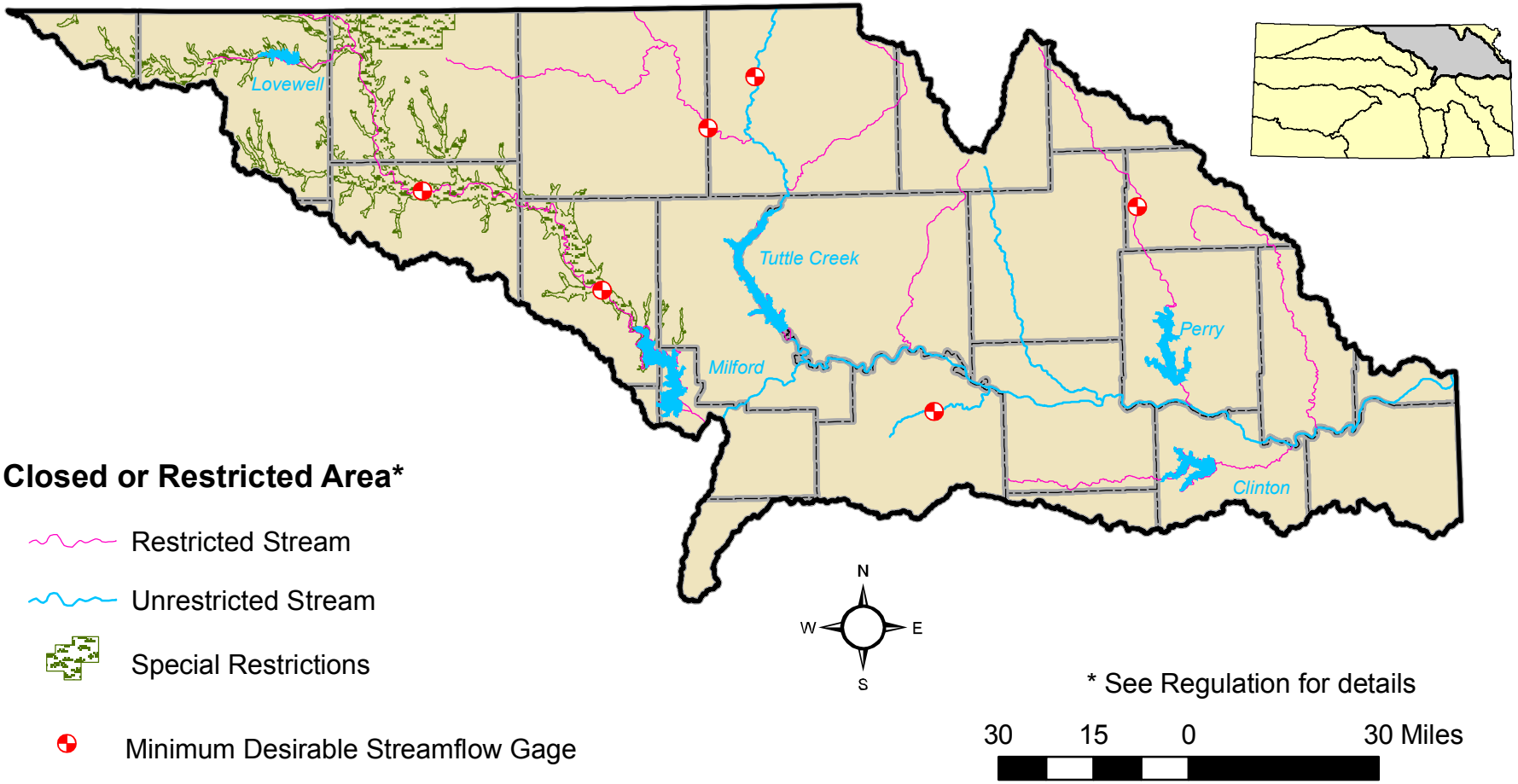
Public Wholesale Water Supply District #18

30 15 0 30 Miles

Kansas Water Office, December 2007



Kansas-Lower Republican Basin
Water Management

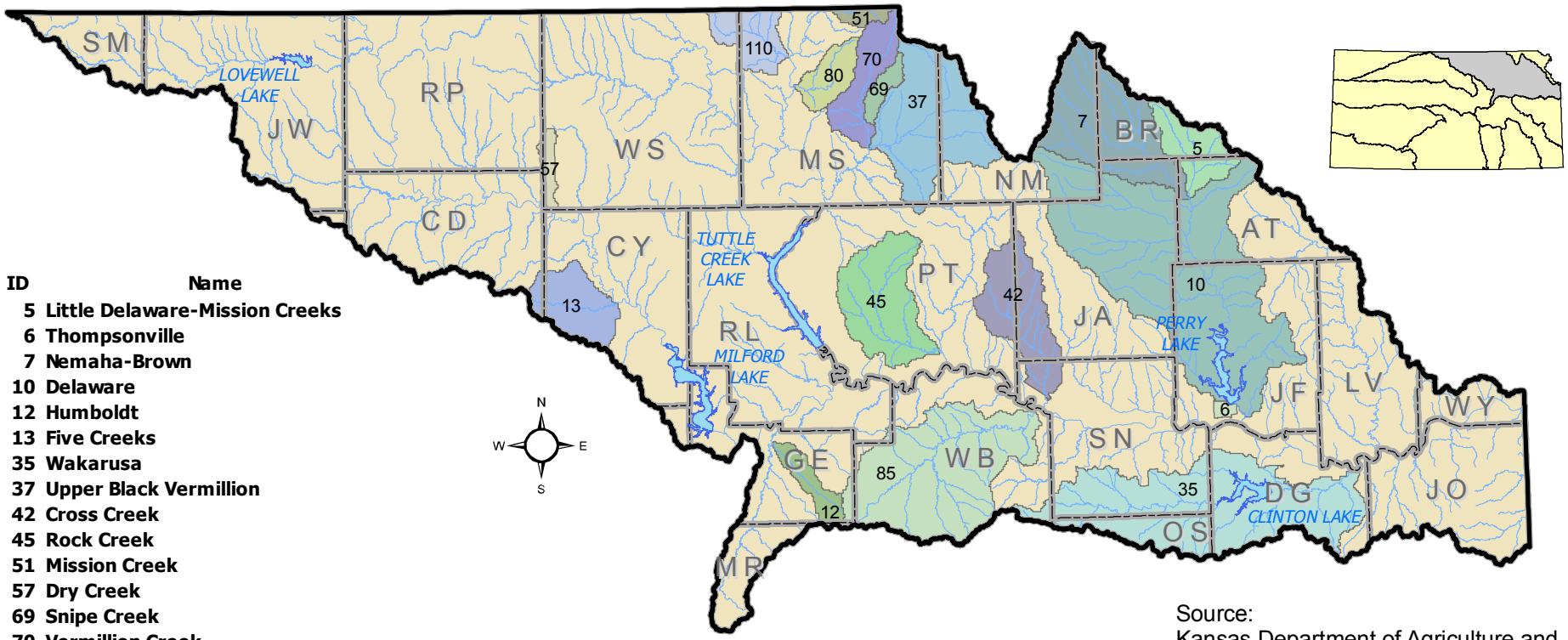


Source:
Kansas Department of Agriculture

Kansas Water Office, November 2008

Kansas - Lower Republican Basin

Watershed Districts



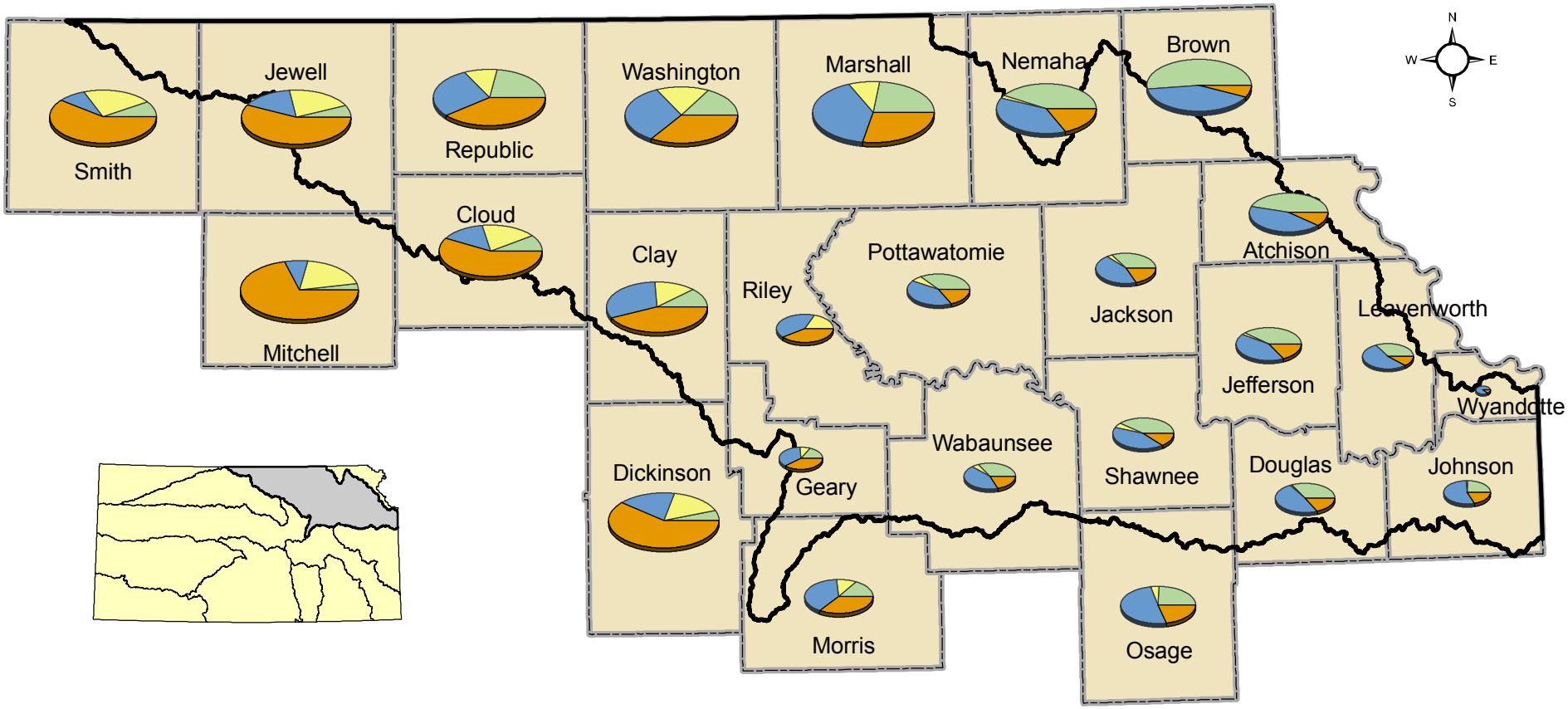
ID	Name
5	Little Delaware-Mission Creeks
6	Thompsonville
7	Nemaha-Brown
10	Delaware
12	Humboldt
13	Five Creeks
35	Wakarusa
37	Upper Black Vermillion
42	Cross Creek
45	Rock Creek
51	Mission Creek
57	Dry Creek
69	Snipe Creek
70	Vermillion Creek
80	Spring Creek
85	Mill Creek
110	Horseshoe Creek

Source:
Kansas Department of Agriculture and State Conservation Commission

Kansas Water Office, November 2008

Kansas-Lower Republican Basin

2007 Harvested Crop Inventory by County



0 20 40 80 Miles

Acres

100,000

Corn

Grain Sorghum

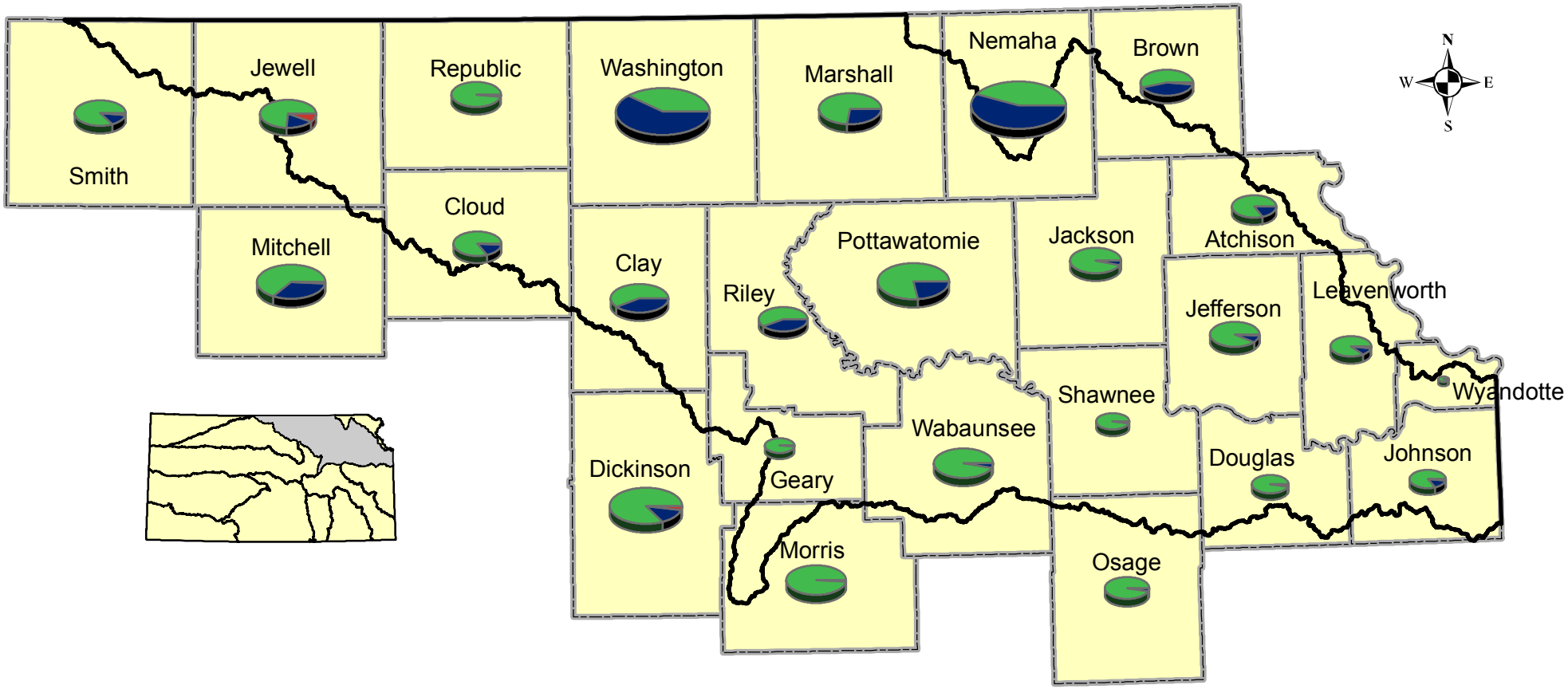
Soybean

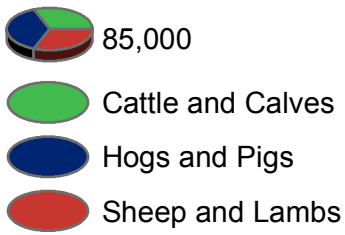
Wheat

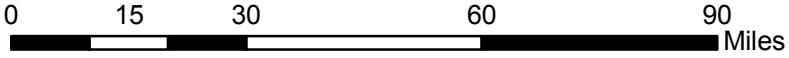
Data Sources: Kansas Agricultural Statistics
Prepared for Kansas Water Plan 2008

Kansas - Lower Republican 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