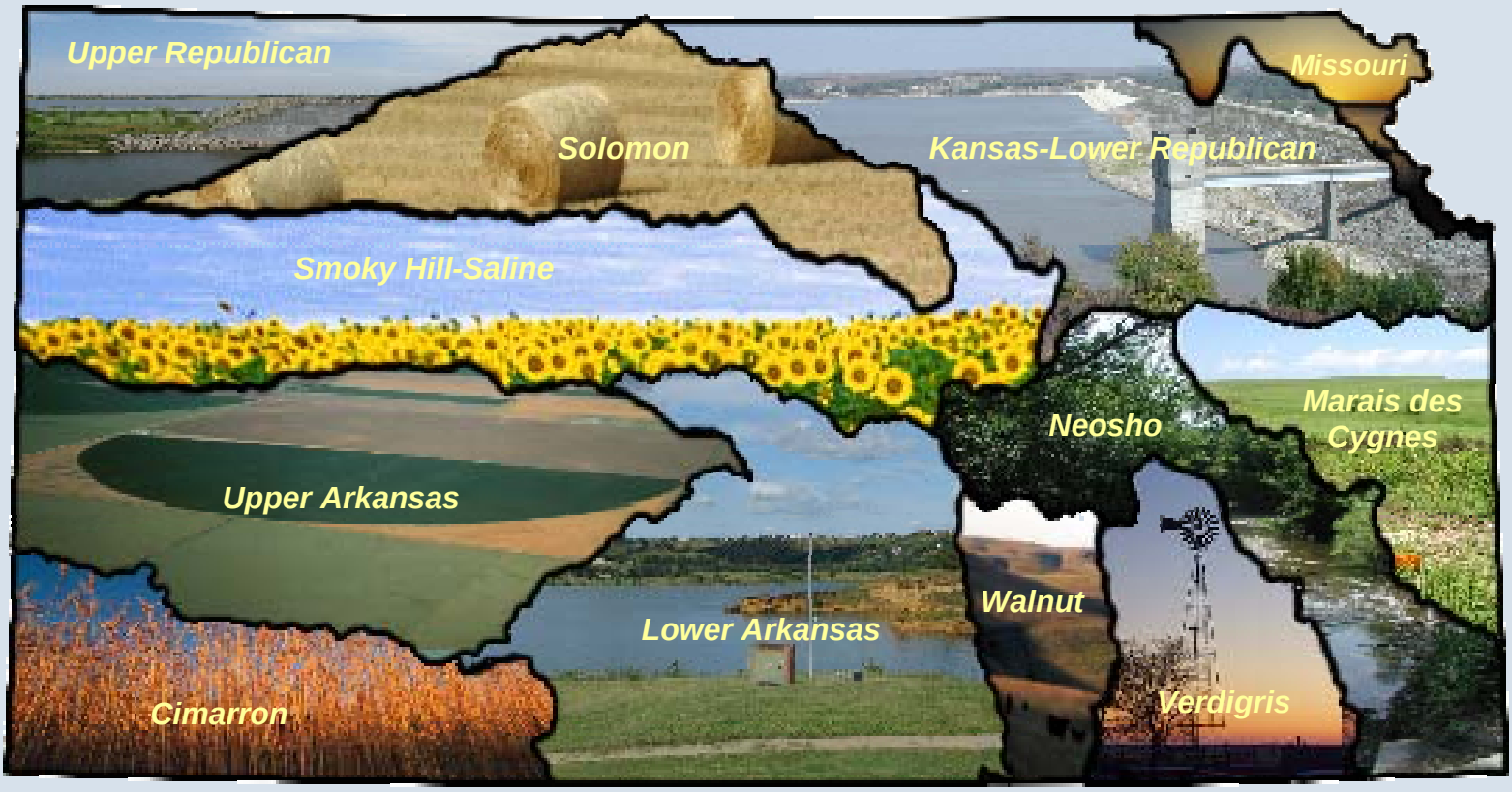
Kansas Water Plan



Atlas

Kansas Water Plan - Atlas
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Federal Lake Storage Customers

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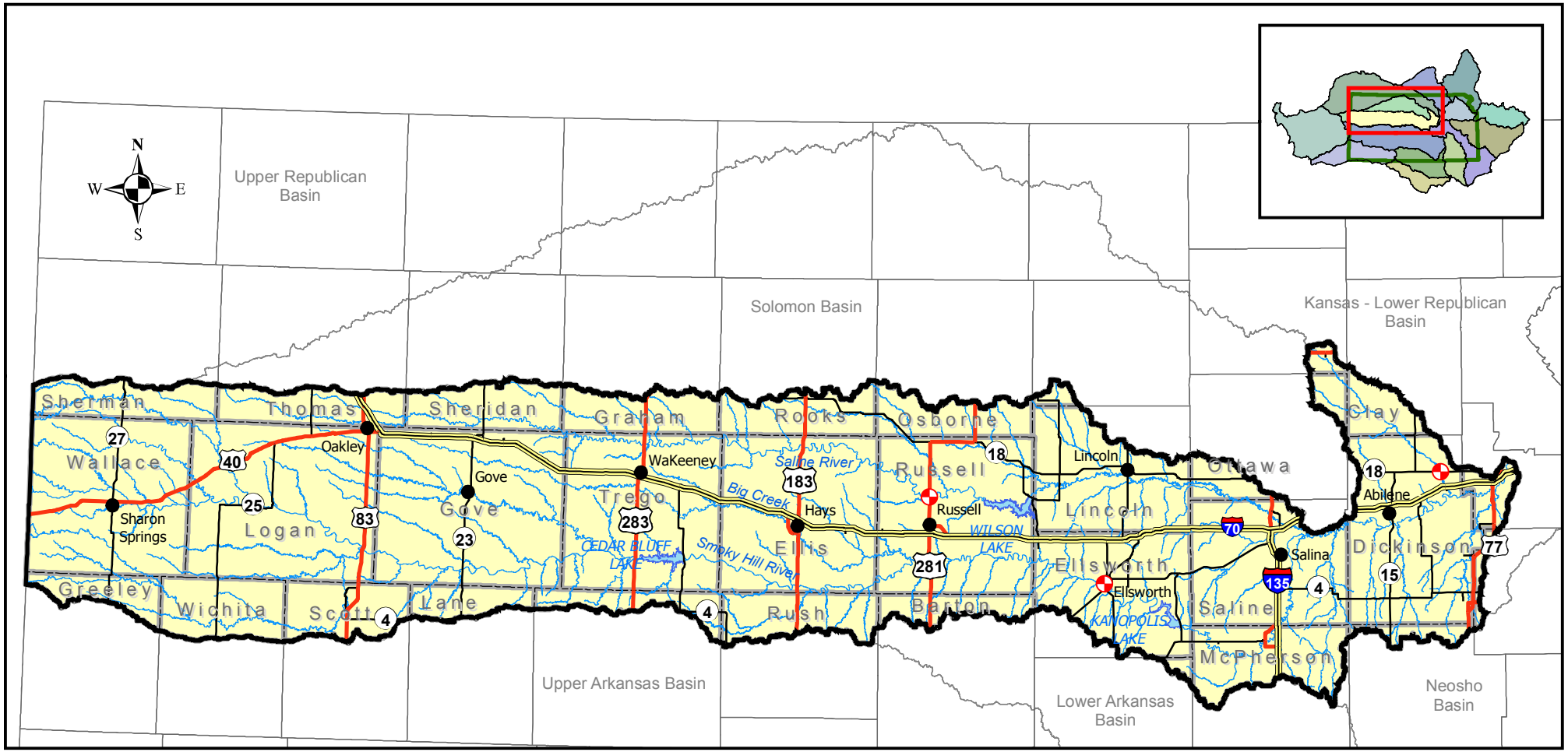
Crop Inventory

Livestock Inventory

Smoky Hill-Saline Basin



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

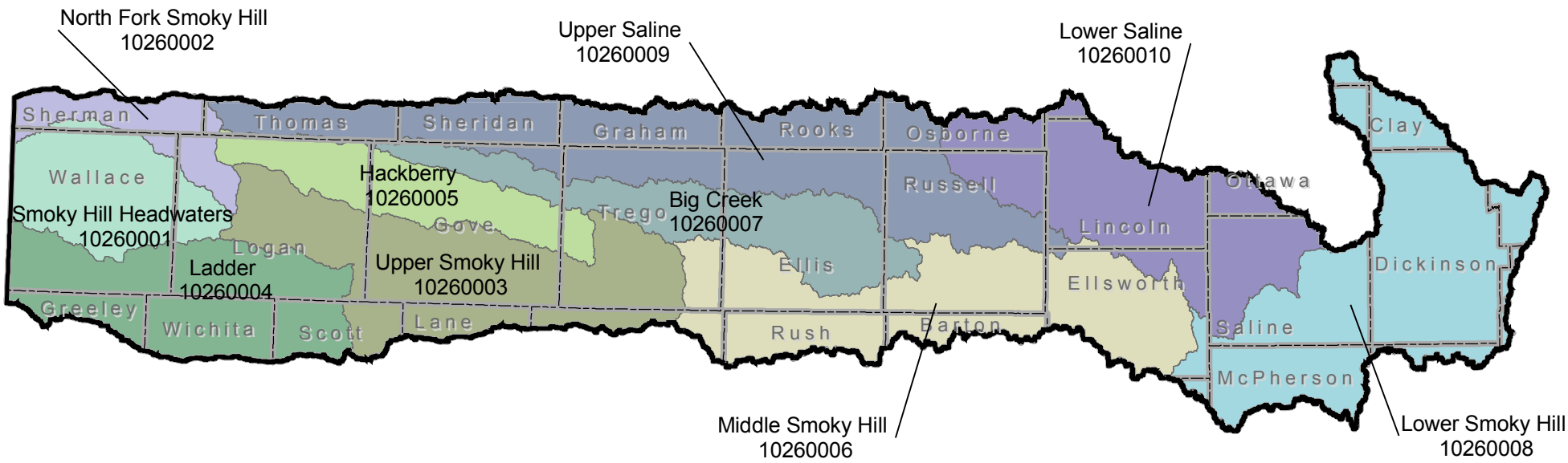
* Minimum Desirable Streamflow

50 25 0 50 Miles

Kansas Water Office, February 2008

Smoky Hill-Saline Basin

HUC-08 Subbasins

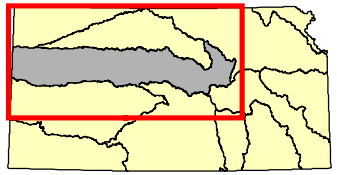


Big Creek
Ladder
Lower Smoky Hill
North Fork Smoky Hill
Upper Saline
Hackberry
Lower Saline
Middle Smoky Hill
Smoky Hill Headwaters
Upper Smoky Hill

N
W
E
S

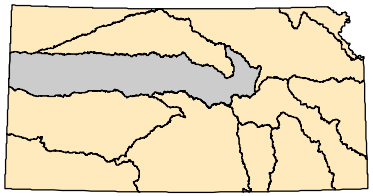
40 20 0 40 Miles

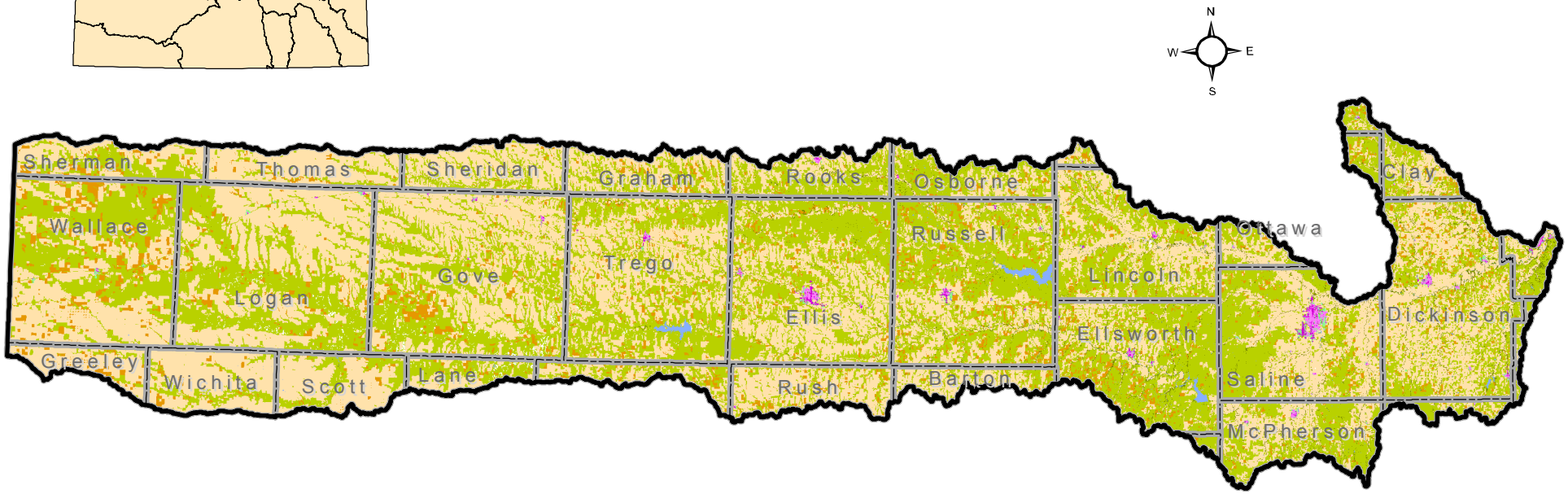
Kansas Water Office, May 2008



Smoky Hill - Saline 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

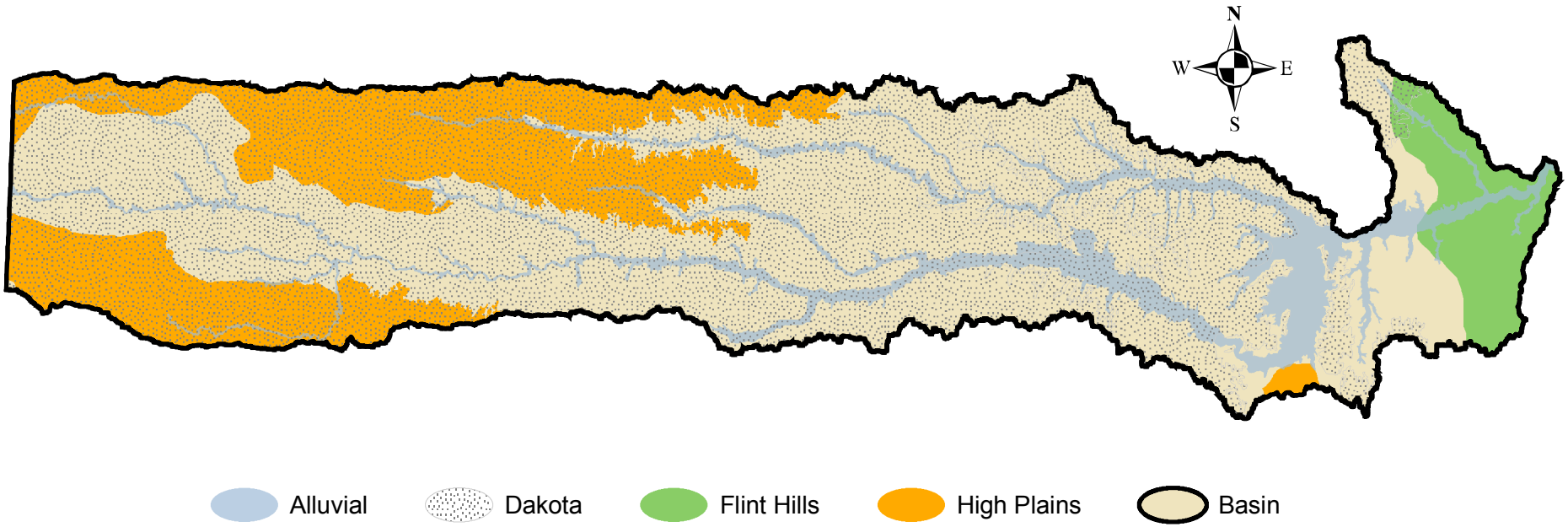
100 50 0 100 Miles

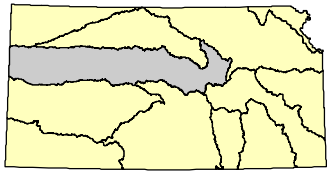
Source: Landsat 5 imagery, Kansas Applied Remote Sensing Program, University of Kansas

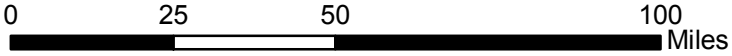
Kansas Water Office, October 2008

Smoky Hill - Saline Basin

Aquifers



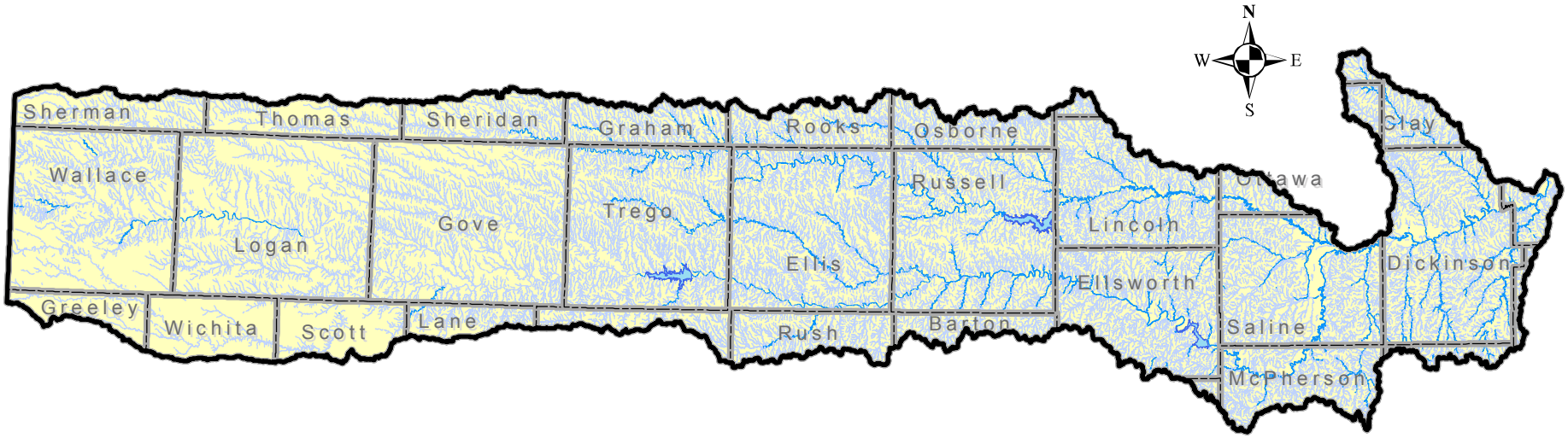




Data Source: U.S. Geological Survey
Prepared for Kansas Water Plan 2008

Smoky Hill - Saline Basin

Surface Water



Perennial Stream

Intermittent Stream

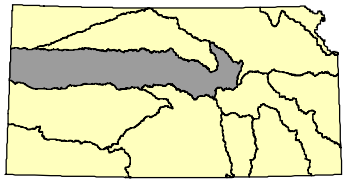
Lake

Basin

County

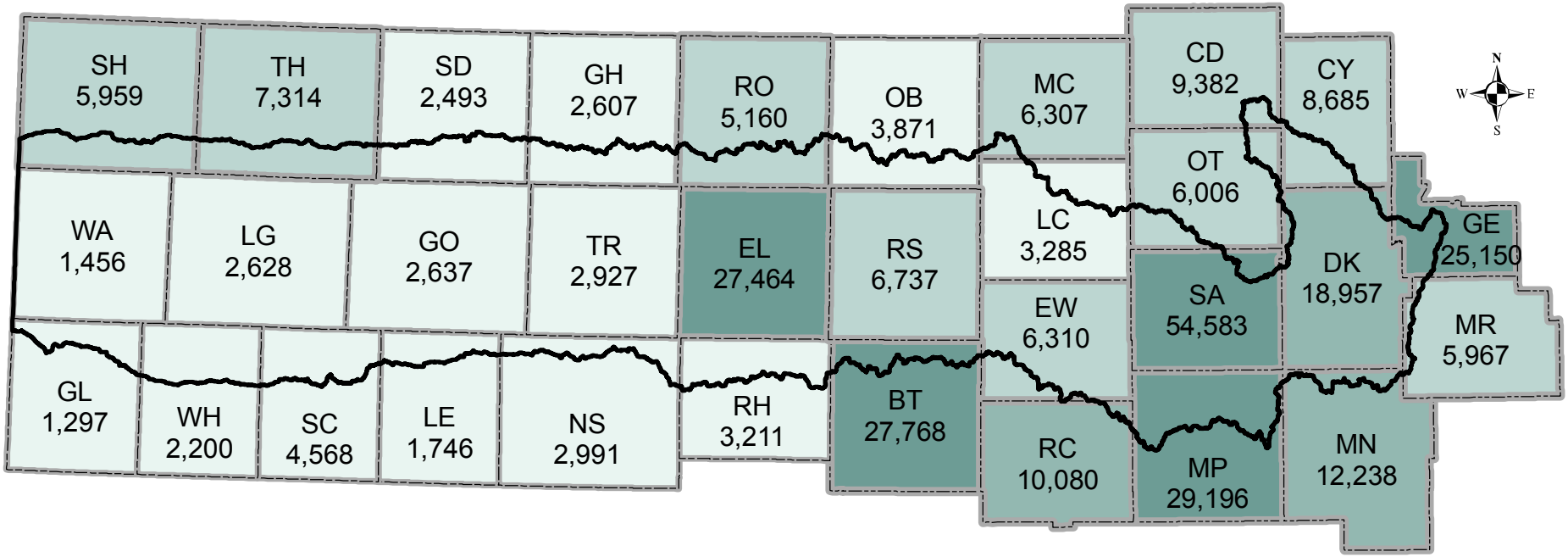
40 20 0 40 Miles

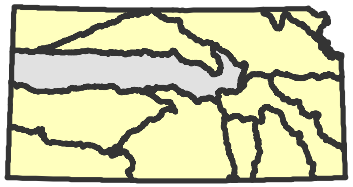
Kansas Water Office, June 2008

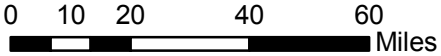


Smoky Hill - Saline Basin

2007 Population Estimates by County



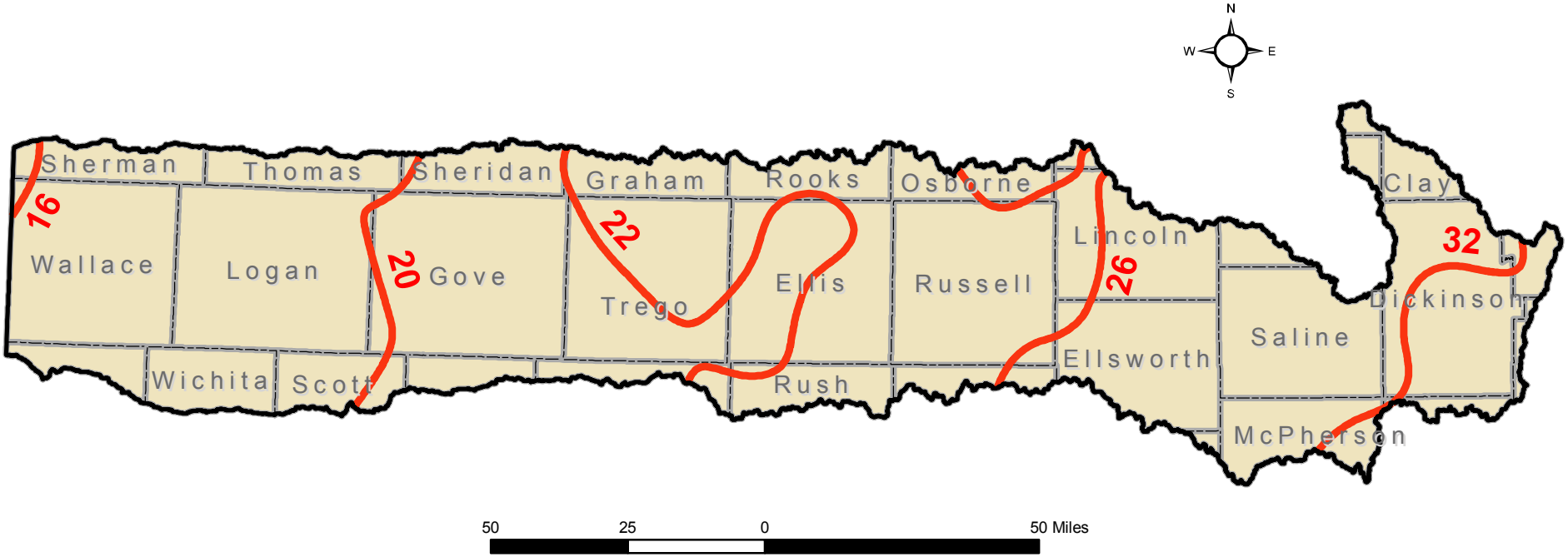




Data Sources:
Kansas Division of Budget, July 1, 2008
Prepared for Kansas Water Plan 2008

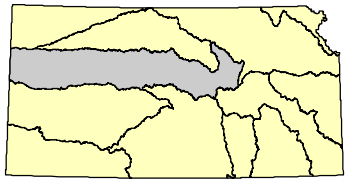
Smoky Hill-Saline Basin

Precipitation



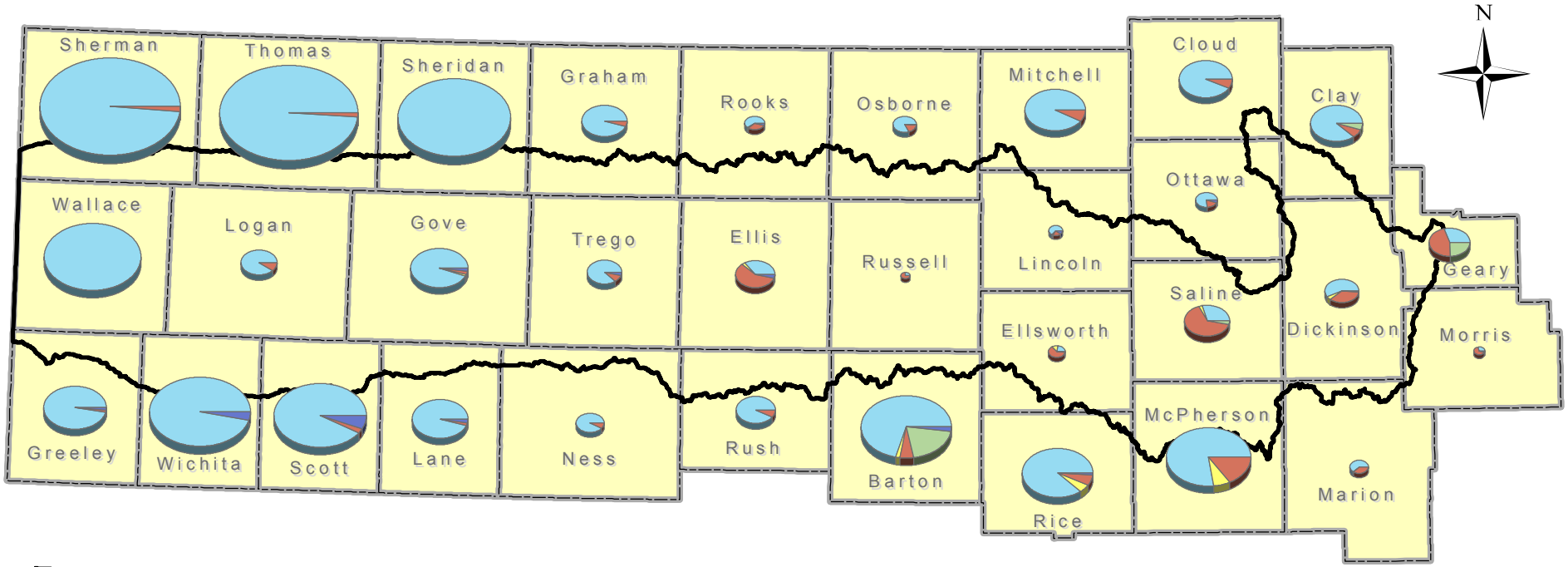
Precipitation Contour

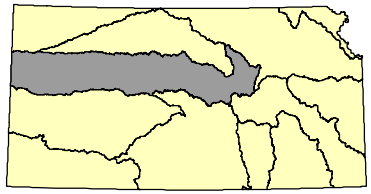
Data Source: National Climate Data Center (NCDC)
Prepared for Kansas Water Plan 2008



Smoky Hill - Saline 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, May 2008

Water Use by Type of Use

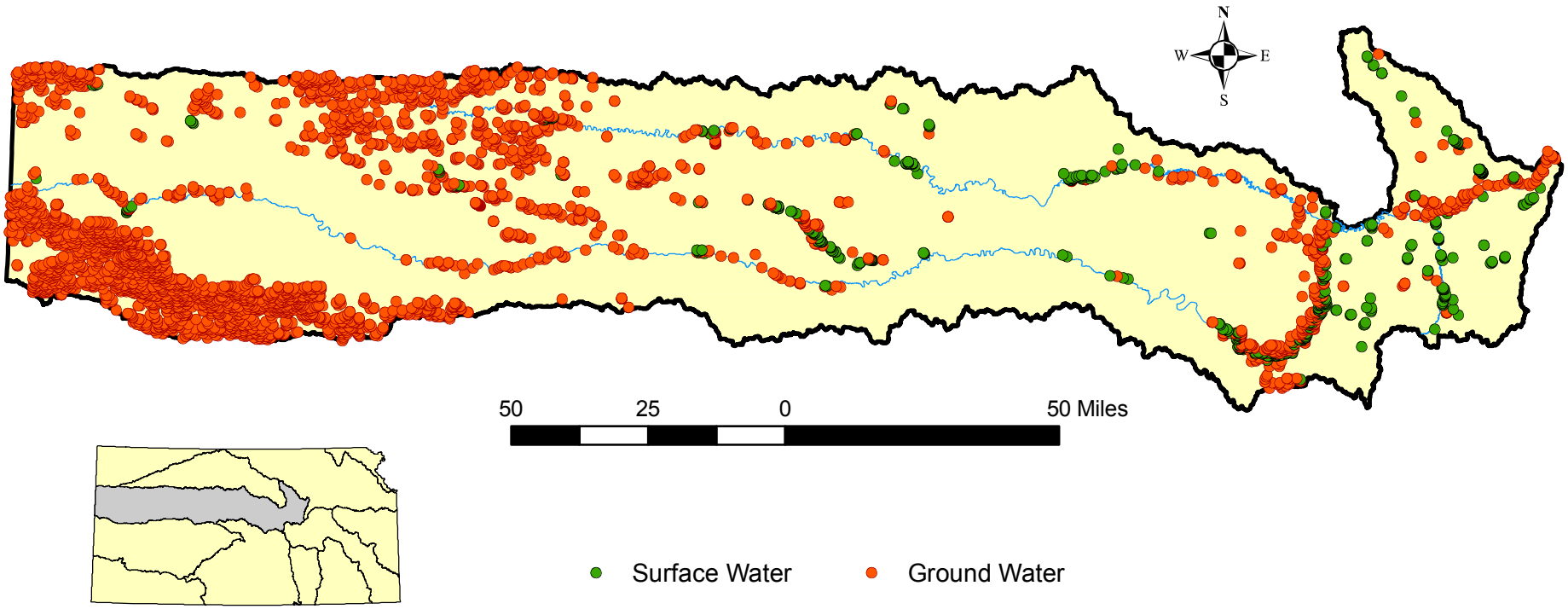
Acre Feet

33,000

- Irrigation
- Industry
- Municipal
- Recreation
- Stock Water

Smoky Hill - Saline Basin

Irrigation Points of Diversion

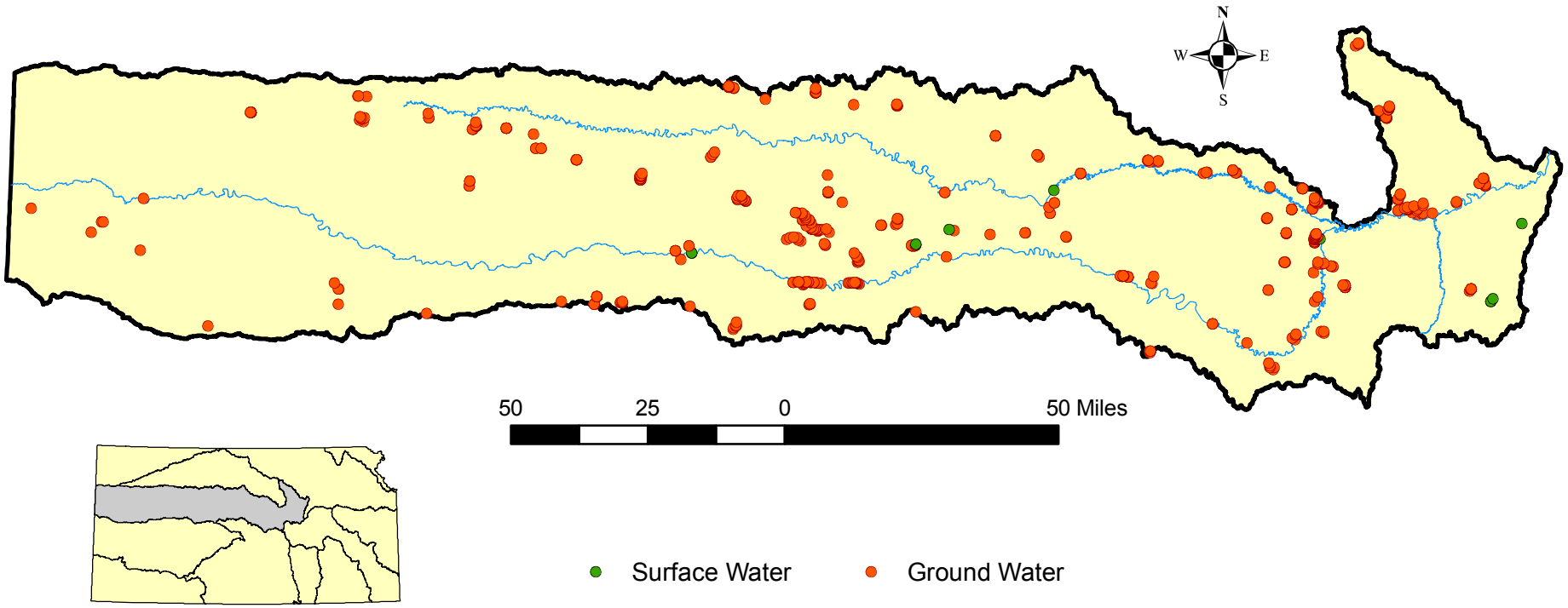


Data Source: Kansas Department of Agriculture, November 2008

Prepared for Kansas Water Plan 2008

Smoky Hill - Saline Basin

Municipal Points of Diversion

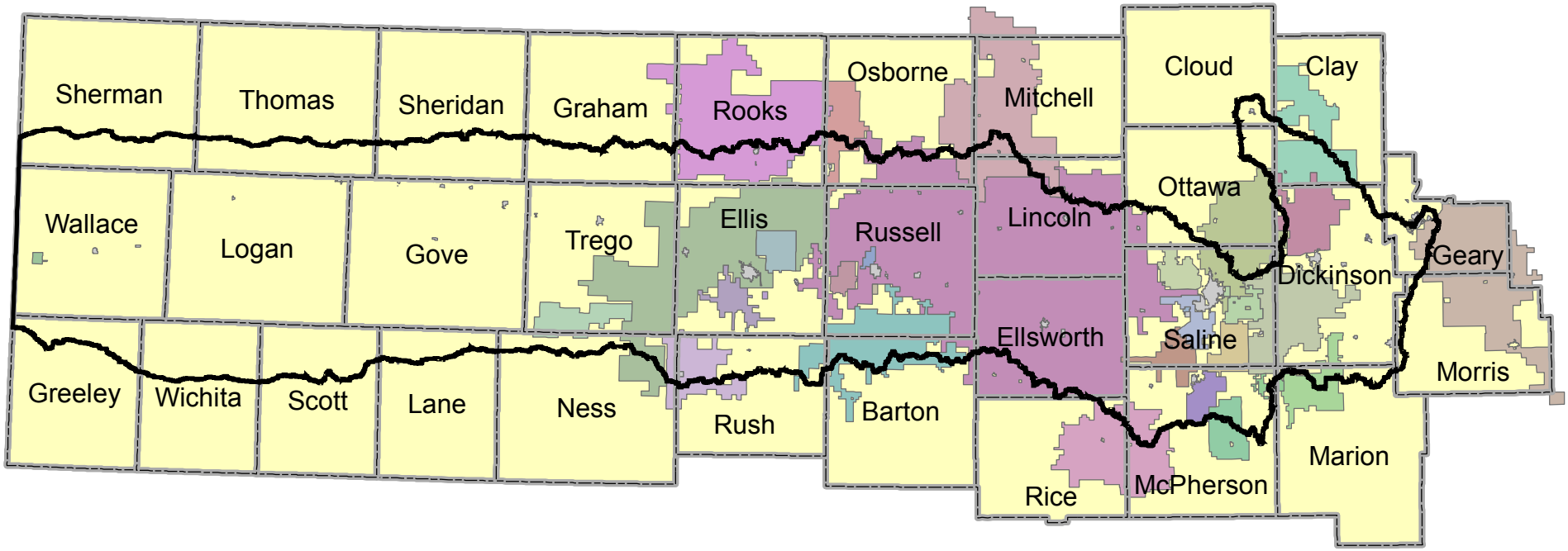


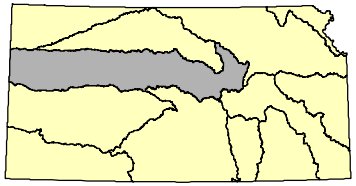
Data Source: Kansas Department of Agriculture, November 2008

Prepared for Kansas Water Plan 2008

Smoky Hill-Saline Basin

Public Water Suppliers





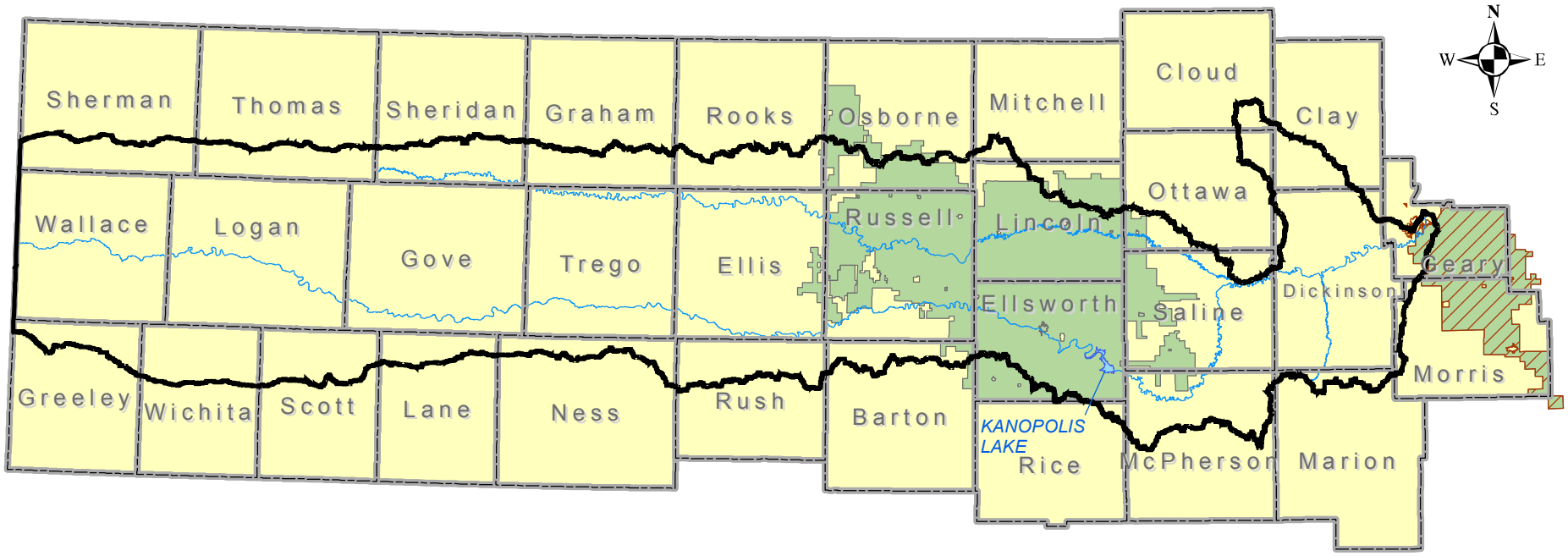
30 15 0 30 Miles

Kansas Water Office, September 2008

N
W E
S

Smoky Hill-Saline Basin

Federal Lake Storage Customers



Stream

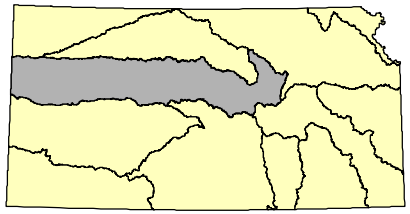
Market/AD Lake

Water Marketing

Water Assurance District

County

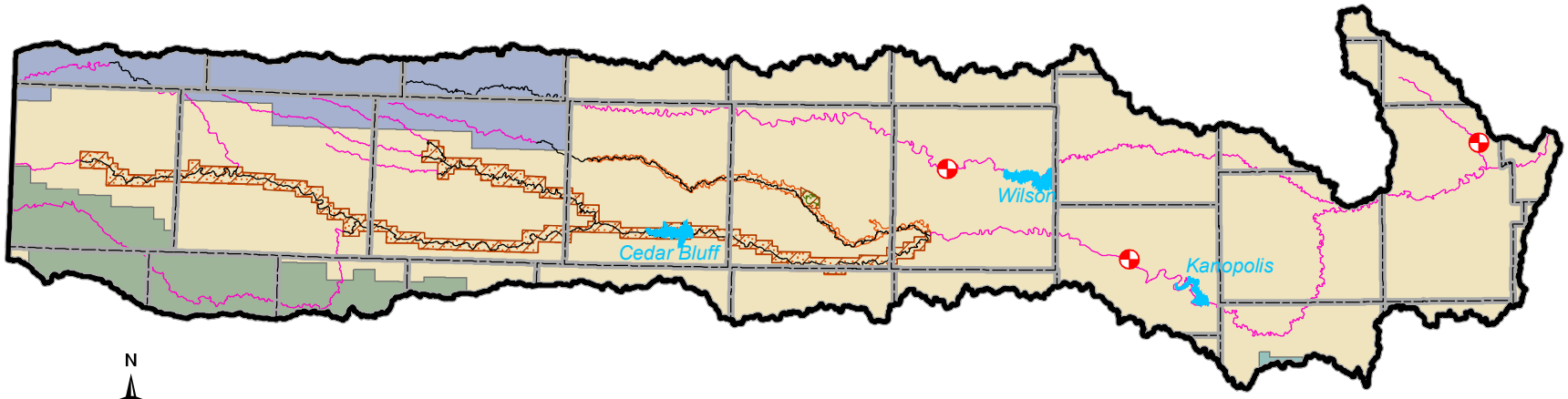
Smoky Hill-Saline Basin

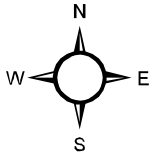


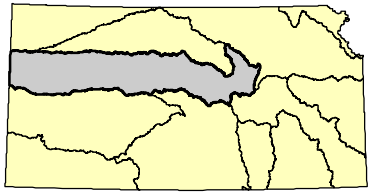
40 20 0 40 Miles

Kansas Water Office, September 2008

Smoky Hill-Saline Basin
Water Management







40 20 0 40 Miles

Minimum Desirable Streamflow Gage

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

Western Kansas Groundwater Management District (GMD) #1

Equus Beds Groundwater Management District (GMD) #2

Northwest Kansas Groundwater Management District (GMD) #4

Closed or Restricted Area*

Closed Stream

Restricted Stream

Closed

Special Restrictions

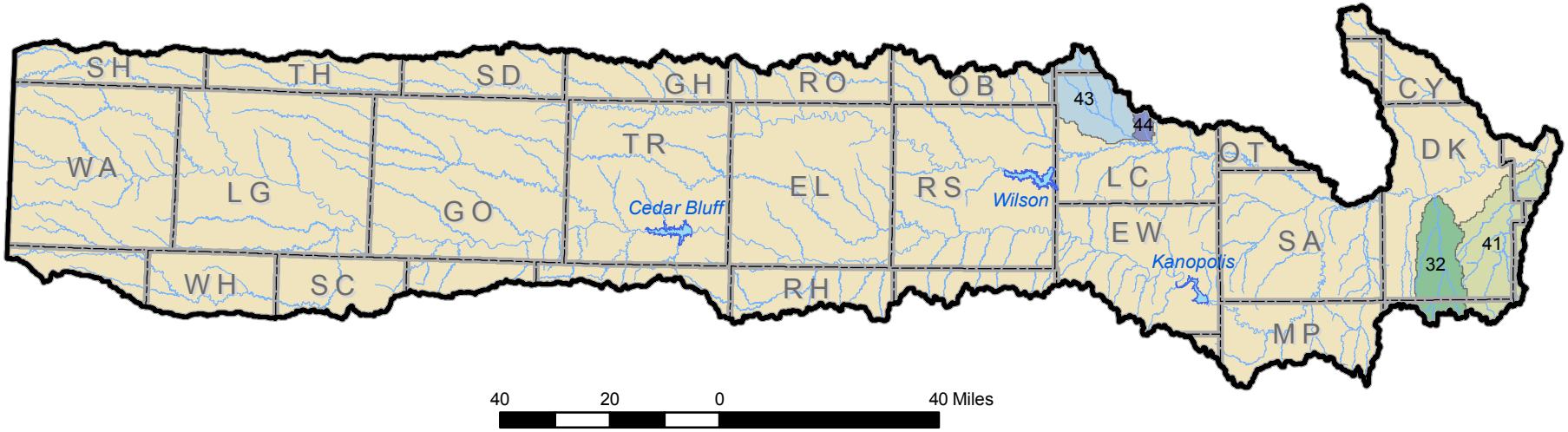
* See Regulation for details

Source:
Kansas Department of Agriculture

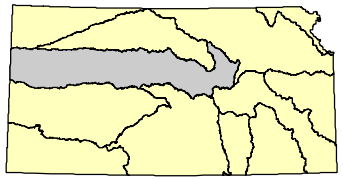
Kansas Water Office, November 2008

Smoky Hill - Saline Basin

Watershed Districts



ID	Name
32	Turkey Creek
41	Lyons Creek
43	Spillman Creek
44	Lost Creek

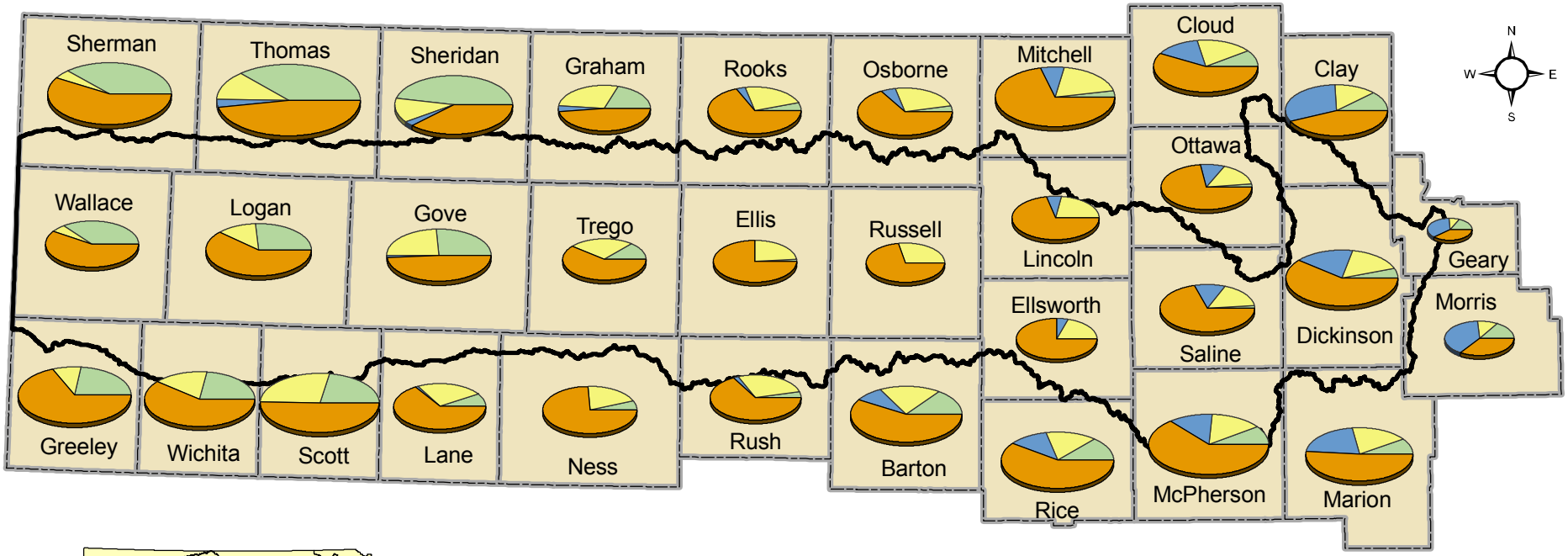


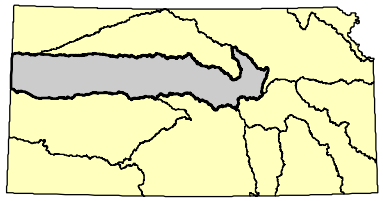
Source:
Kansas Department of Agriculture and
State Conservation Commission

Kansas Water Office, November 2008

Smoky Hill-Saline Basin

2007 Harvested Crop Inventory by County





Acres

100,000

Corn

Grain Sorghum

Soybean

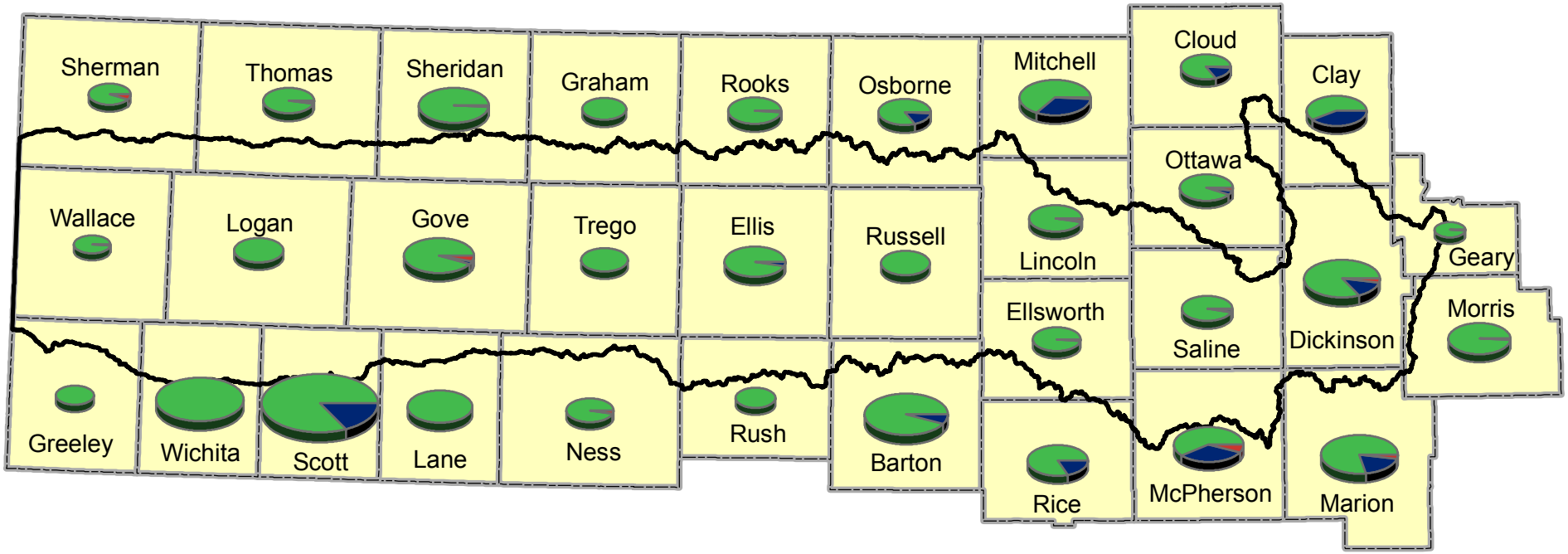
Wheat

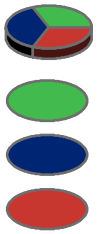
0 25 50 100 Miles

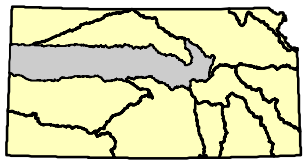
Data Sources: Kansas Agricultural Statistics
Prepared for Kansas Water Plan 2008

Smoky Hill - Saline Basin

2002 Livestock Inventory by County







0 15 30 60 90 Miles

Note: Some data not shown to protect individual farm operations

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