Kansas Drought Declaration

Western States Drought Coordinators and Emergency Managers Meeting

July 21-22, 2015

Kansas Water Office

Key Drought Declaration Components

- Collect and compile information pertaining to water resources of the state including drought
- Drought Response Operation Plan
- Governors Drought Response Team
- Drought Declaration - Executive Order

Kansas Water Office

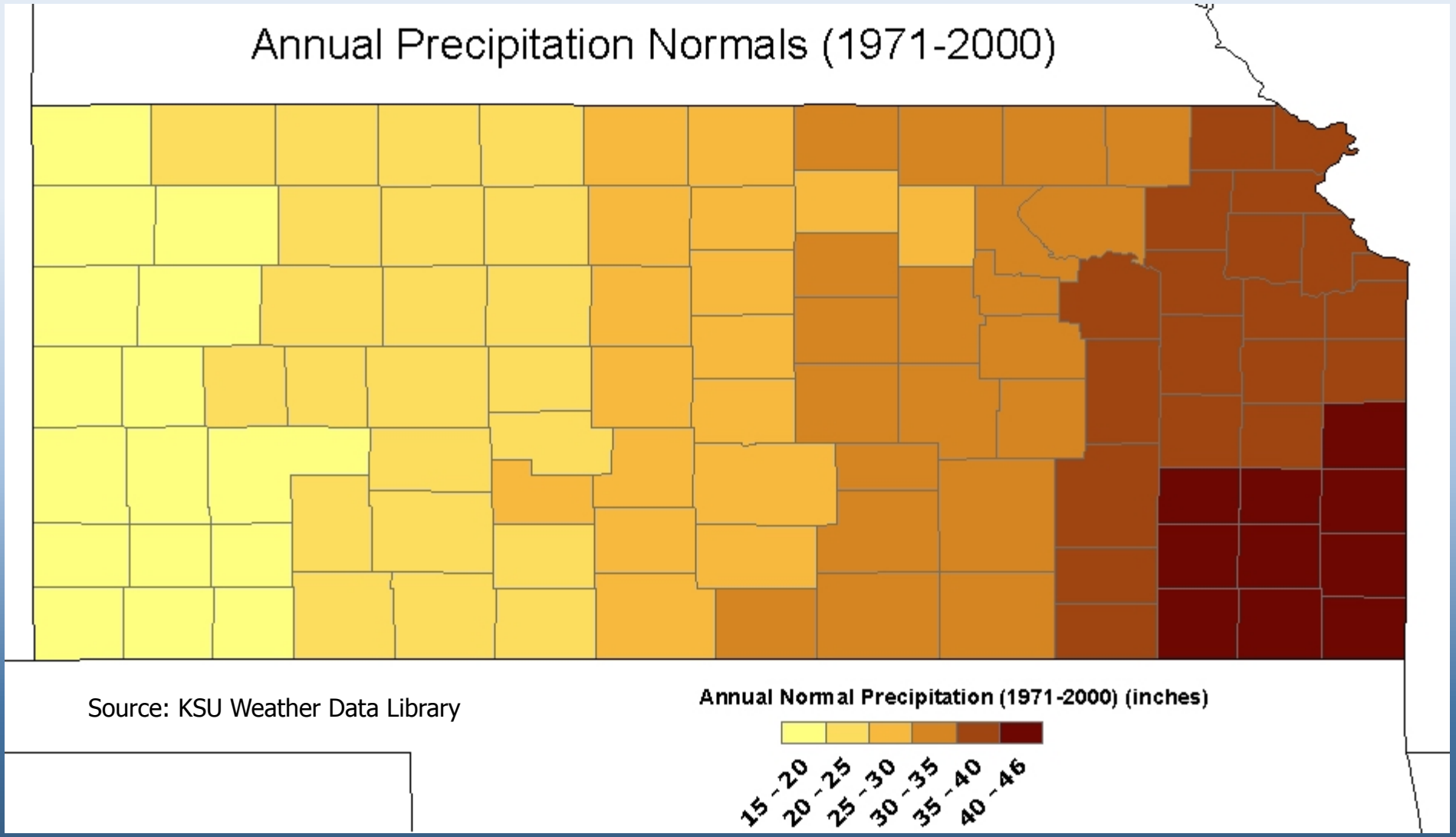
County Drought Stages

- Drought Watch: Moderate Drought.
- Drought Warning: Severe Drought.
- Drought Emergency: Extreme or Exceptional Drought.

- These stages do not by themselves trigger specific response
- Are indications to local and state responders

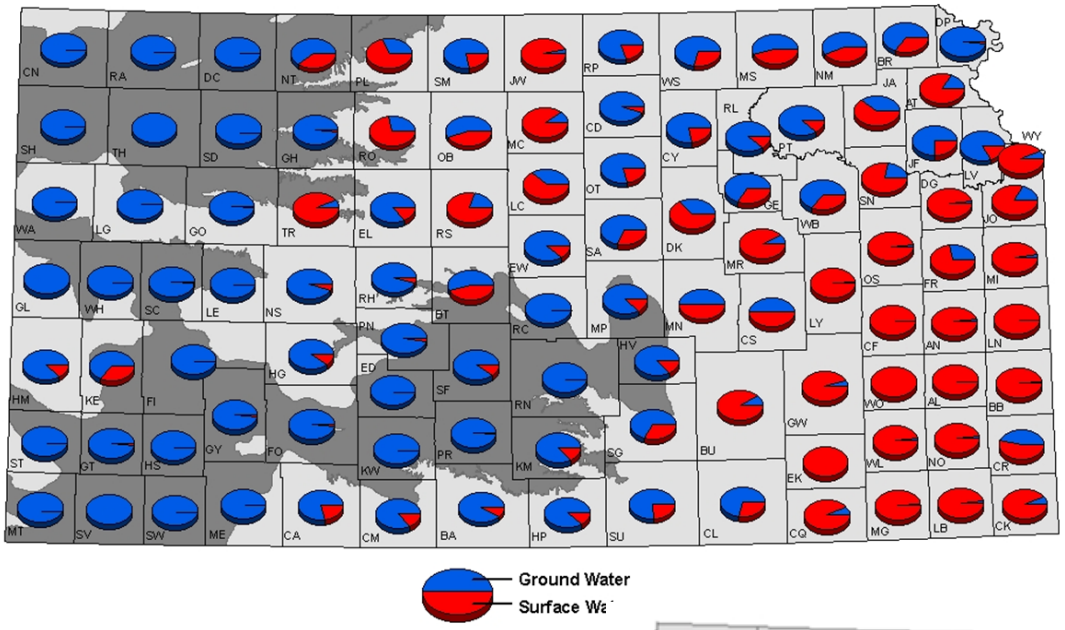
Kansas Water Office

Kansas Precipitation Varies

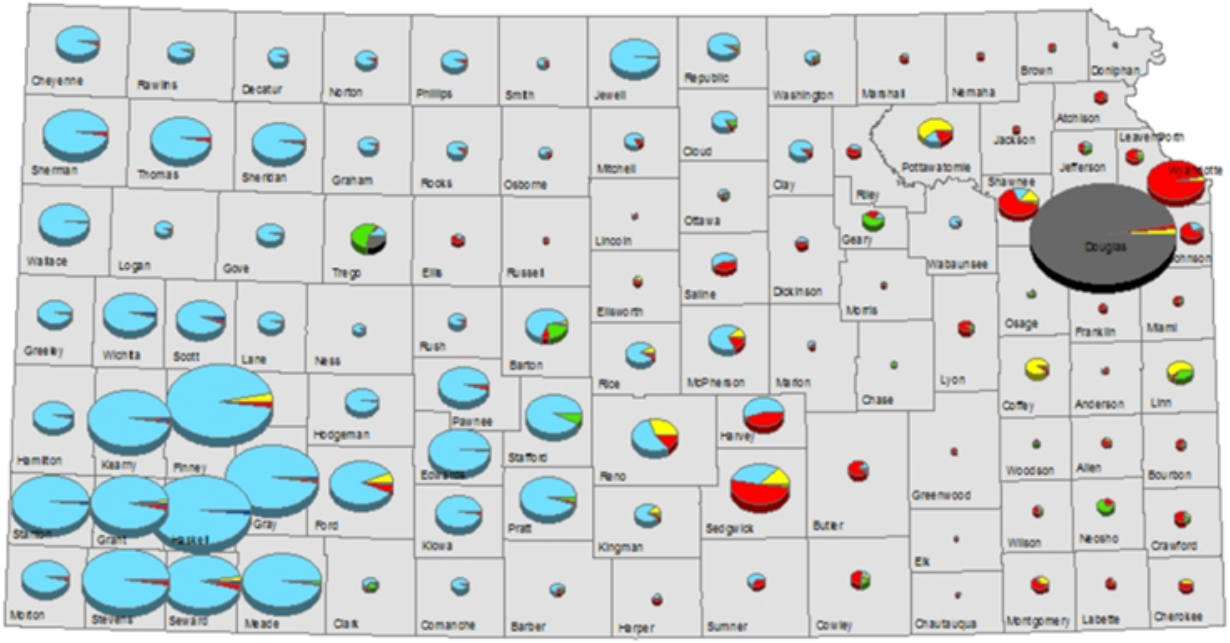


Source: KSU Weather Data Library

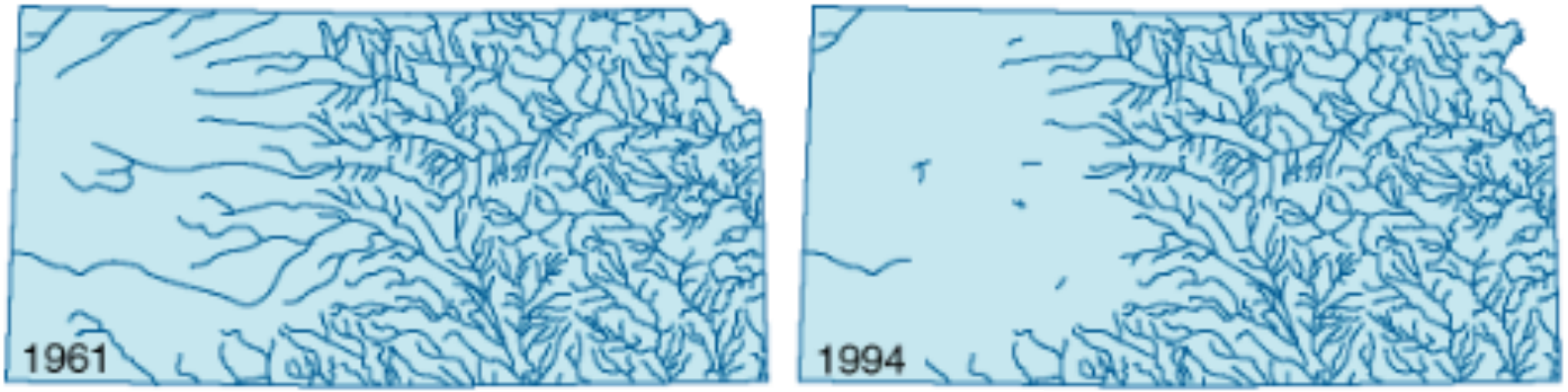
Kansas Sources



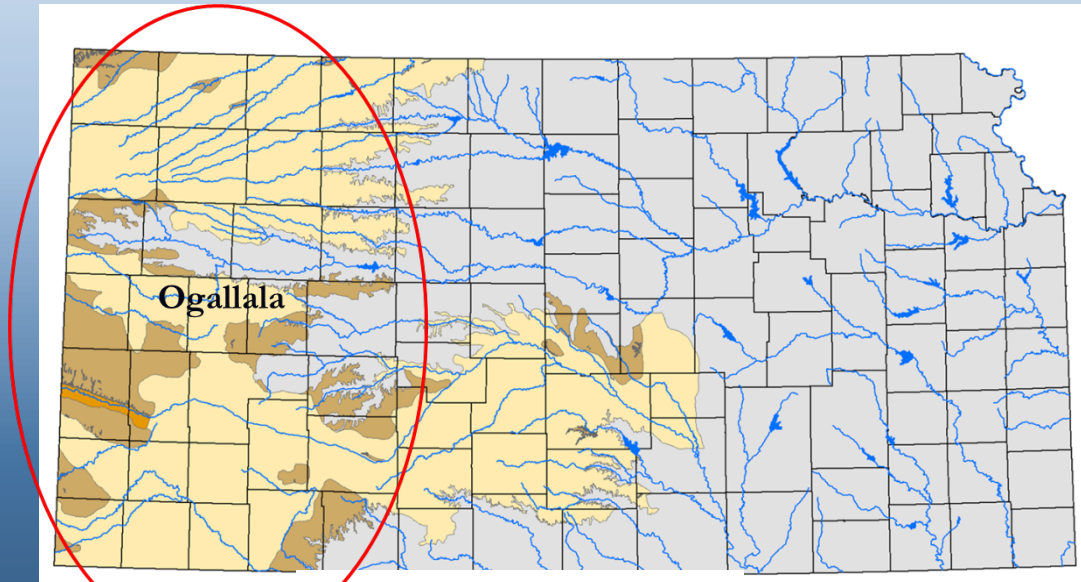
Water Use



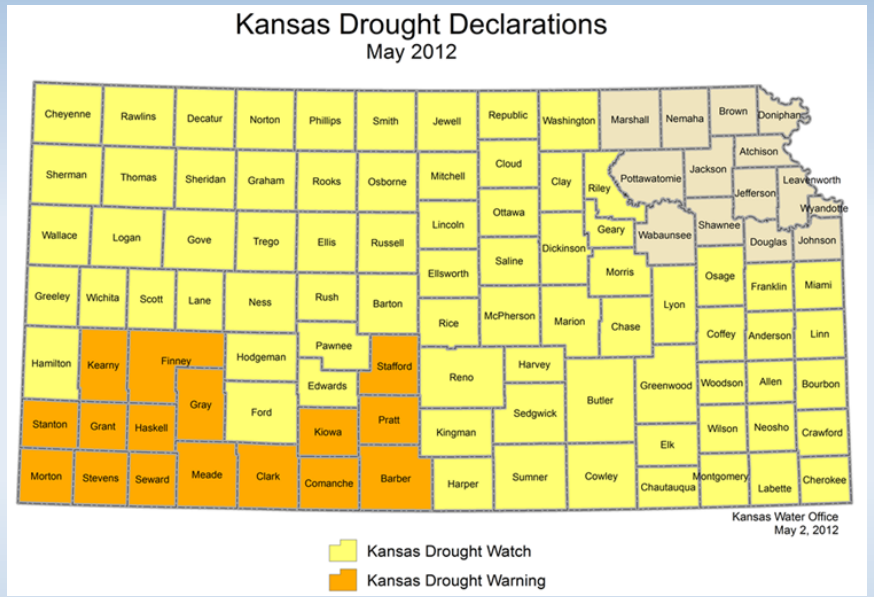
Major Sources

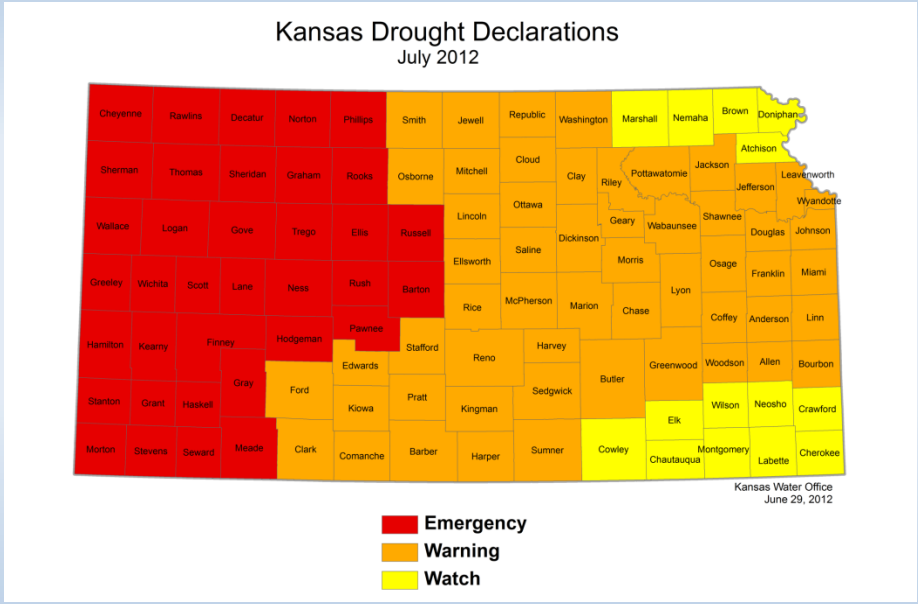


Major Perennial Streams



High Plains Aquifer


Kansas Drought Declarations
May 2012
Cheyenne Rawlins Decatur Norton Phillips Smith Jewell Republic Washington Marshall Nemaha Brown Doniphan
Sherman Thomas Sheridan Graham Rooks Osborne Mitchell Cloud Clay Riley Pottawatomie Jackson Atchison Jefferson Leavenworth Wyandotte
Wallace Logan Gove Trego Ellis Russell Lincoln Ottawa Geary Wabaunsee Shawnee Douglas Johnson
Greeley Wichita Scott Lane Ness Rush Barton Ellsworth Saline Dickinson Morris Osage Franklin Miami
Rice McPherson Marion Chase Lyon Coffey Anderson Linn
Hamilton Kearny Finney Hodgeman Pawnee Stafford Reno Harvey Butler Greenwood Woodson Allen Bourbon
Gray Edwards Ford Pratt Kiowa Kingman Sedgwick Elk Wilson Neosho Crawford
Stanton Grant Haskell Morton Stevens Seward Meade Clark Comanche Barber Harper Sumner Cowley Chautauqua Montgomery Labette Cherokee
Kansas Water Office
May 2, 2012
Kansas Drought Watch
Kansas Drought Warning


Kansas Drought Declarations
July 2012
Cheyenne Rawlins Decatur Norton Phillips Smith Jewell Republic Washington Marshall Nemaha Brown Doniphan
Sherman Thomas Sheridan Graham Rooks Osborne Mitchell Cloud Clay Riley Pottawatomie Jackson Atchison Jefferson Leavenworth Wyandotte
Wallace Logan Gove Trego Ellis Russell Lincoln Ottawa Geary Wabaunsee Shawnee Douglas Johnson
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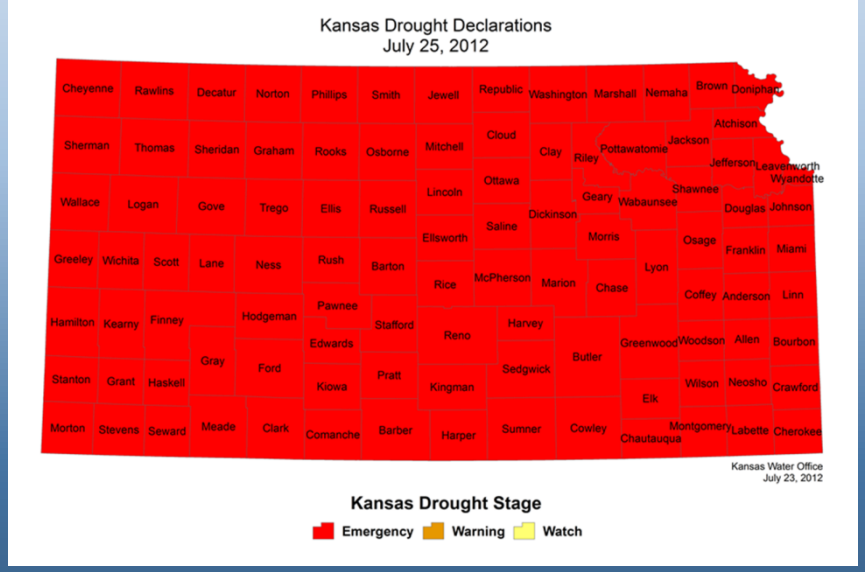
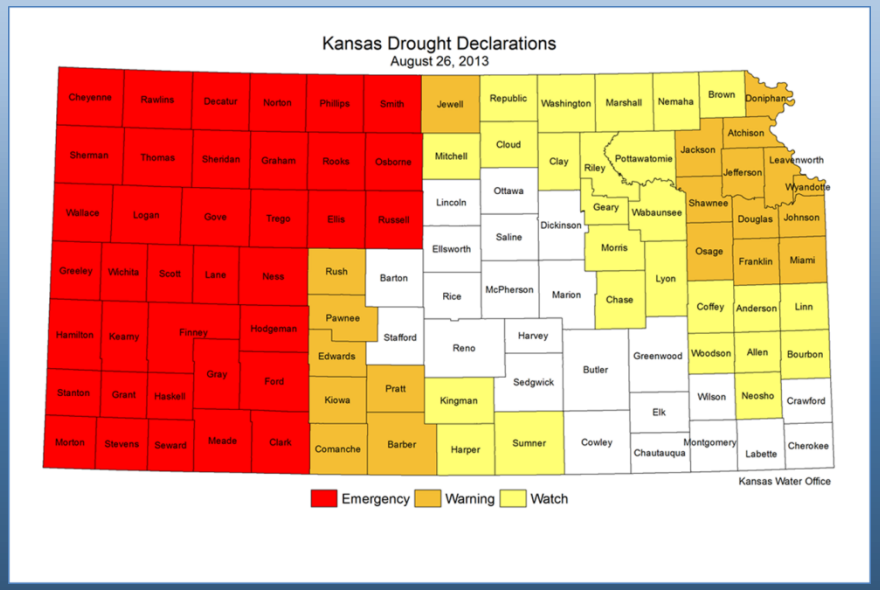
Gray Edwards Ford Pratt Kiowa Kingman Sedgwick Elk Wilson Neosho Crawford
Stanton Grant Haskell Morton Stevens Seward Meade Clark Comanche Barber Harper Sumner Cowley Chautauqua Montgomery Labette Cherokee
Kansas Water Office
June 29, 2012
Emergency
Warning
Watch

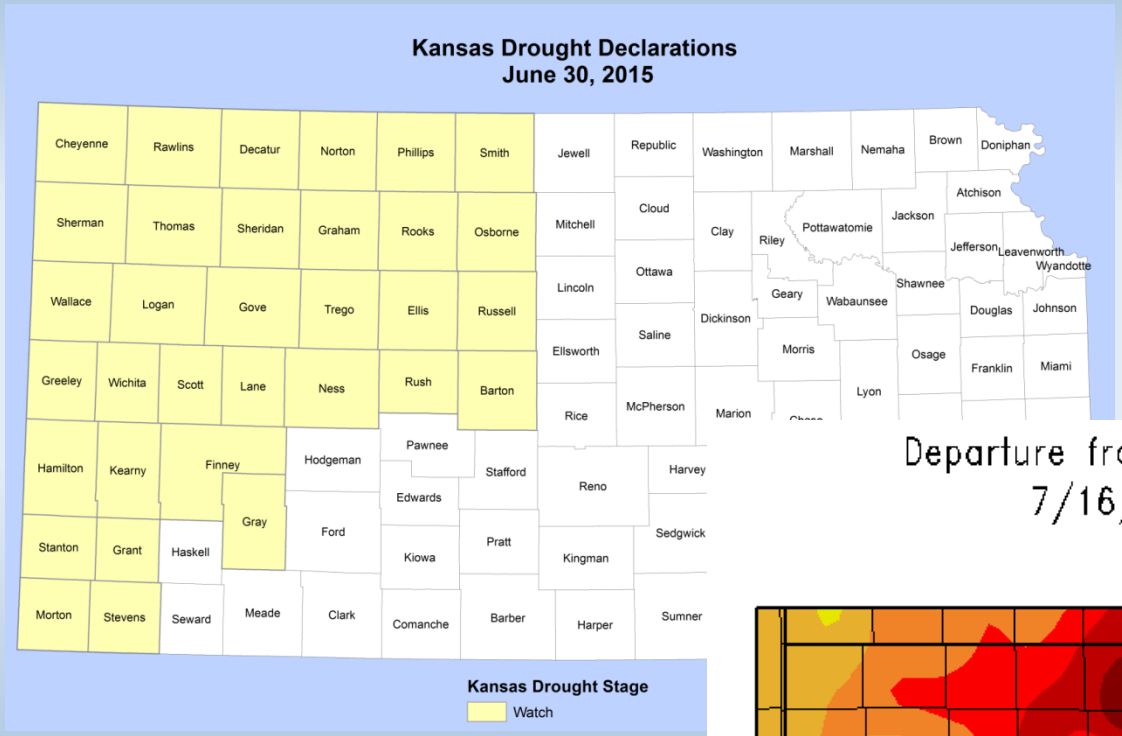

Kansas Drought Declarations
July 25, 2012
Cheyenne Rawlins Decatur Norton Phillips Smith Jewell Republic Washington Marshall Nemaha Brown Doniphan
Sherman Thomas Sheridan Graham Rooks Osborne Mitchell Cloud Clay Riley Pottawatomie Jackson Atchison Jefferson Leavenworth Wyandotte
Wallace Logan Gove Trego Ellis Russell Lincoln Ottawa Geary Wabaunsee Shawnee Douglas Johnson
Greeley Wichita Scott Lane Ness Rush Barton Ellsworth Saline Dickinson Morris Osage Franklin Miami
Rice McPherson Marion Chase Lyon Coffey Anderson Linn
Hamilton Kearny Finney Hodgeman Pawnee Stafford Reno Harvey Butler Greenwood Woodson Allen Bourbon
Gray Edwards Ford Pratt Kiowa Kingman Sedgwick Elk Wilson Neosho Crawford
Stanton Grant Haskell Morton Stevens Seward Meade Clark Comanche Barber Harper Sumner Cowley Chautauqua Montgomery Labette Cherokee
Kansas Water Office
July 23, 2012
Kansas Drought Stage
Emergency Warning Watch

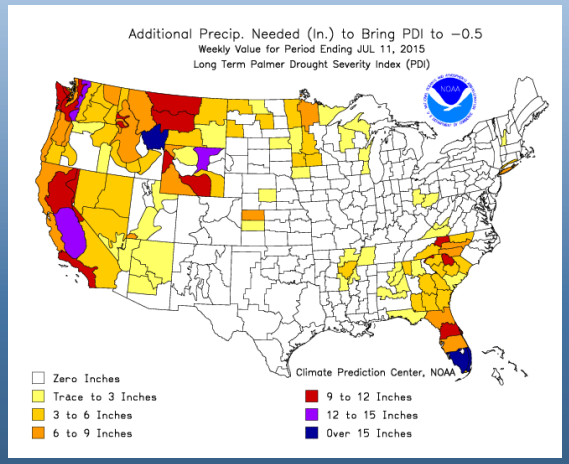

Kansas Drought Declarations
August 26, 2013
Cheyenne Rawlins Decatur Norton Phillips Smith Jewell Republic Washington Marshall Nemaha Brown Doniphan
Sherman Thomas Sheridan Graham Rooks Osborne Mitchell Cloud Clay Riley Pottawatomie Jackson Atchison Jefferson Leavenworth Wyandotte
Wallace Logan Gove Trego Ellis Russell Lincoln Ottawa Geary Wabaunsee Shawnee Douglas Johnson
Greeley Wichita Scott Lane Ness Rush Barton Ellsworth Saline Dickinson Morris Osage Franklin Miami
Rice McPherson Marion Chase Lyon Coffey Anderson Linn
Hamilton Kearny Finney Hodgeman Pawnee Stafford Reno Harvey Butler Greenwood Woodson Allen Bourbon
Gray Edwards Ford Pratt Kiowa Kingman Sedgwick Elk Wilson Neosho Crawford
Stanton Grant Haskell Morton Stevens Seward Meade Clark Comanche Barber Harper Sumner Cowley Chautauqua Montgomery Labette Cherokee
Kansas Water Office
Emergency Warning Watch

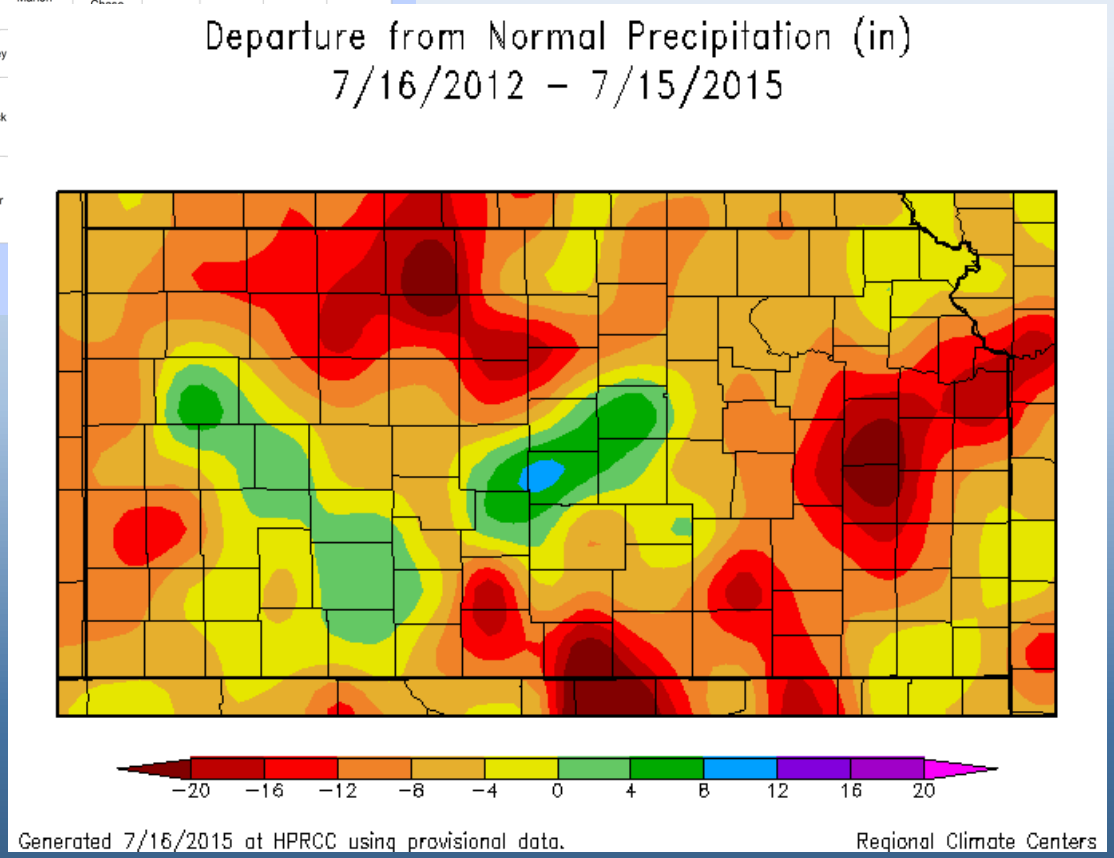
Questions?

Diane Knowles
Diane.knowles@kwo.ks.gov

Kansas Water Office


Kansas Drought Declarations
June 30, 2015
Cheyenne
Rawlins
Decatur
Norton
Phillips
Smith
Jewell
Republic
Washington
Marshall
Nemaha
Brown
Doniphan
Sherman
Thomas
Sheridan
Graham
Rooks
Osborne
Mitchell
Cloud
Clay
Riley
Pottawatomie
Jackson
Atchison
Jefferson
Leavenworth
Wyandotte
Wallace
Logan
Gove
Trego
Ellis
Russell
Lincoln
Ottawa
Geary
Wabaunsee
Shawnee
Dickinson
Saline
Douglas
Johnson
Ellsworth
Morris
Osage
Franklin
Miami
Greeley
Wichita
Scott
Lane
Ness
Rush
Barton
Rice
McPherson
Marion
Lyon
Hamilton
Kearny
Finney
Hodgeman
Pawnee
Stafford
Reno
Harvey
Gray
Edwards
Ford
Sedgwick
Stanton
Grant
Haskell
Kiowa
Pratt
Kingman
Morton
Stevens
Seward
Meade
Clark
Comanche
Barber
Harper
Sumner
Kansas Drought Stage
Watch


Additional Precip. Needed (In.) to Bring PDI to −0.5
Weekly Value for Period Ending JUL 11, 2015
Long Term Palmer Drought Severity Index (PDI)
Climate Prediction Center, NOAA
Zero Inches
Trace to 3 Inches
3 to 6 Inches
6 to 9 Inches
9 to 12 Inches
12 to 15 Inches
Over 15 Inches


Departure from Normal Precipitation (in)
7/16/2012 – 7/15/2015
−20
−16
−12
−8
−4
0
4
8
12
16
20
Generated 7/16/2015 at HPRCC using provisional data.
Regional Climate Centers