

**OC Fisher Lake**

**06-23-2011**

**GH = 1853.12 ft**

# USGS Streamflow Activities and Drought Monitoring Information

USACE-USGS Quarterly Meeting  
January 23, 2013  
Bob Hainly  
USGS, Office of Surface Water

•1  
*Photographer Travis Dowell, USGS*

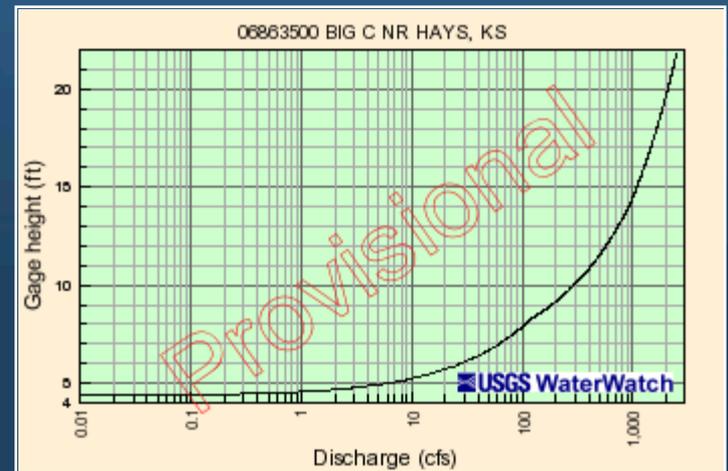
# USGS Streamflow Monitoring Activities

- Making additional streamflow measurements at ungaged locations



- Assuring that stage data are accurate and record is complete

- Extending lower end of stage-discharge ratings



# USGS Drought Monitoring Products

## WaterWatch

Search WaterWatch

Home

Current Streamflow

Flood

Drought

Past Flow/Runoff

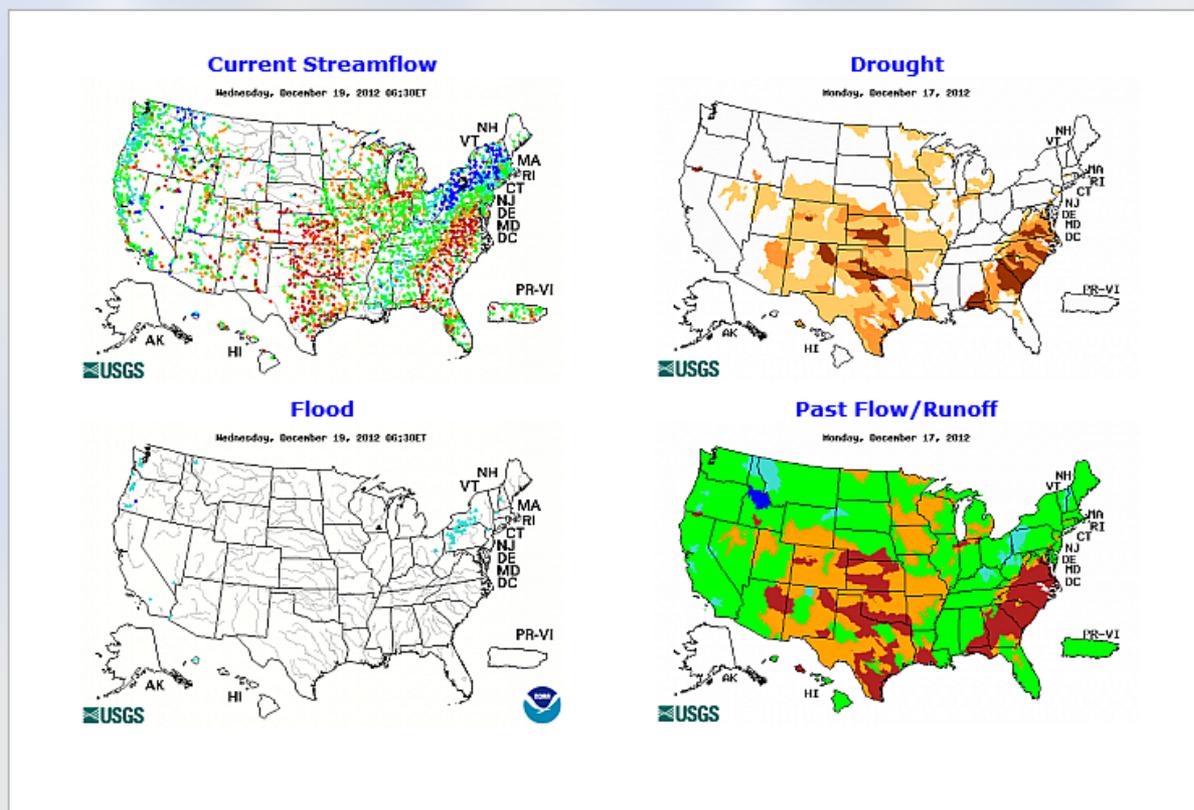
Animation

Toolkit

Toolkit (internal)

Additional Information

About WaterWatch

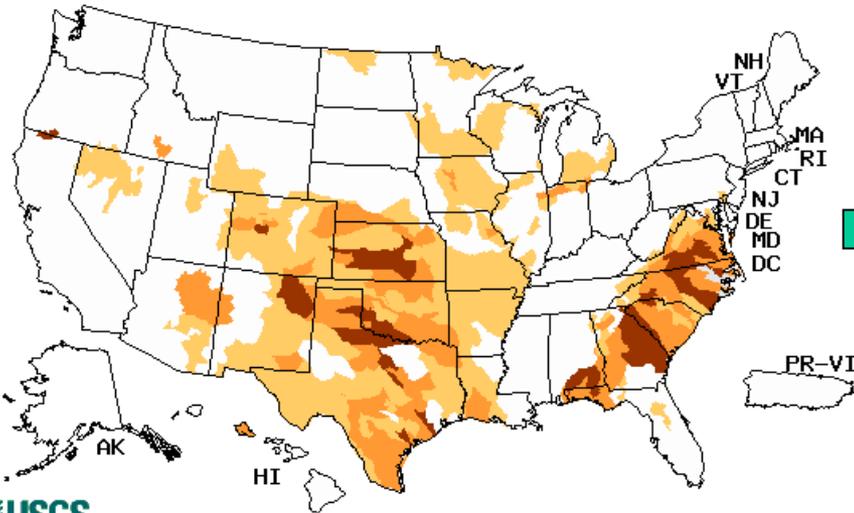


# USGS Drought Monitoring Products

**Map of below normal 7-day average streamflow compared to historical streamflow for the day of year (United States)**

State

Tuesday, December 18, 2012



Choose a data retrieval option and select a state on the map

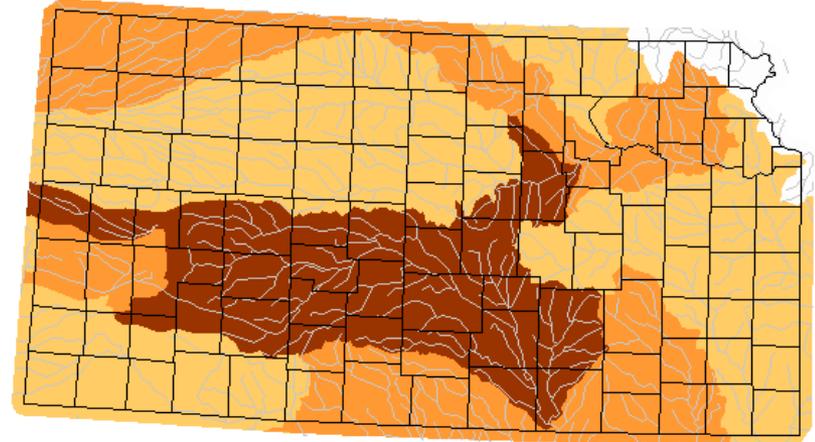
State DroughtWatch,  State map

Explanation - Percentile classes				
Low	≤5	6-9	10-24	Insufficient data for a hydrologic region
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	

**Map of below normal 7-day average streamflow compared to historical streamflow for the day of year (Kansas)**

Kansas

Tuesday, December 18, 2012



Click map to obtain more detailed drought information for the state

Explanation - Percentile classes				
Low	≤5	6-9	10-24	Insufficient data for a hydrologic region
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	

[http://waterwatch.usgs.gov/index.php?id=ww\\_drought](http://waterwatch.usgs.gov/index.php?id=ww_drought)

# USGS Drought Monitoring Products

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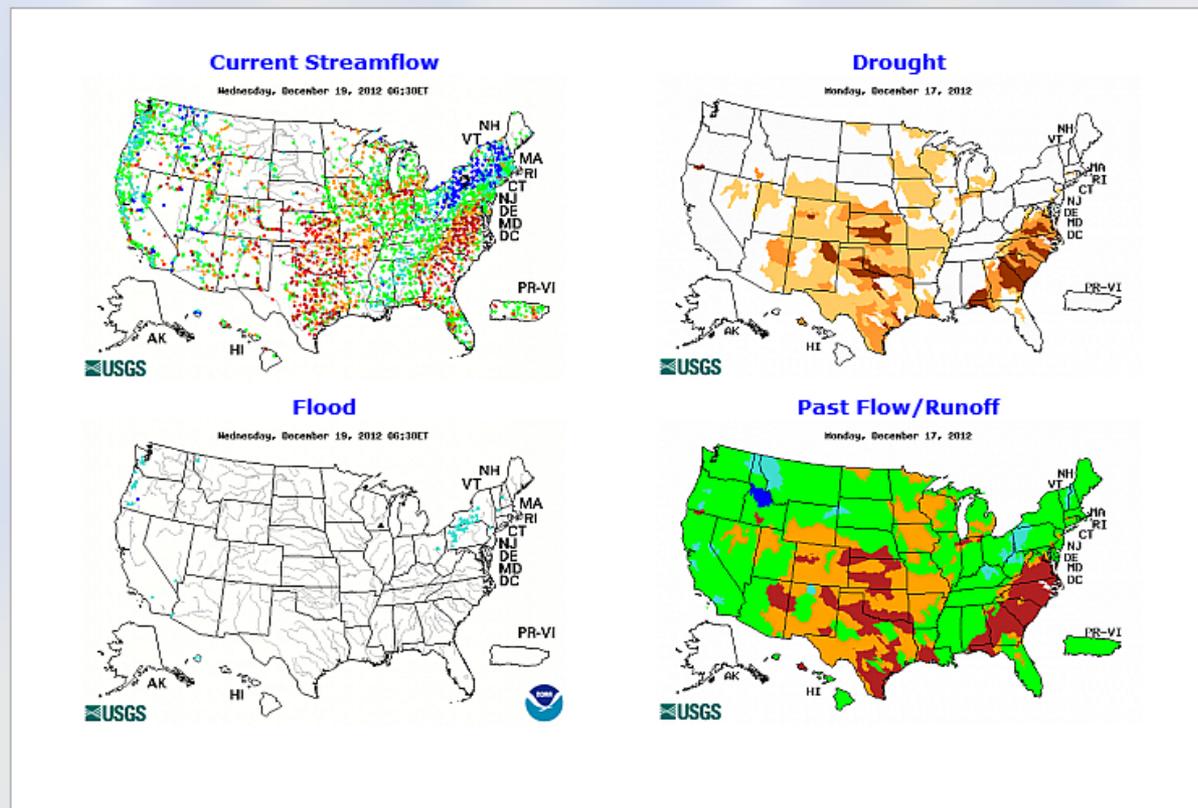
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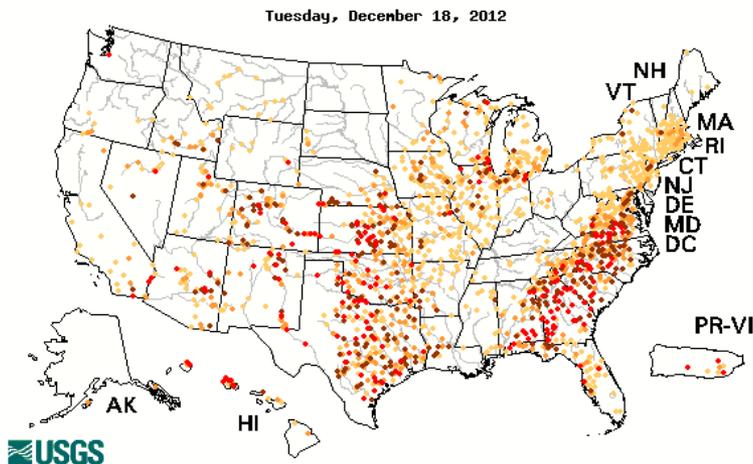


# USGS Drought Monitoring Products

## 28-day Below Normal Streamflow

Map of below normal 28-day average streamflow compared to historical streamflow for the day of year (United States)

State  or Water-Resources Regions

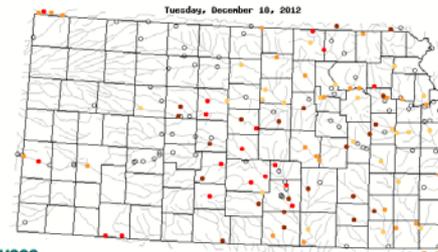


Choose a data retrieval option and select a location on the map  
 List of all stations in state,  State map, or  Nearest stations

Explanation - Percentile classes			
Low	<=5	6-9	10-24
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal

Map of below normal 28-day average streamflow compared to historical streamflow for the day of year (Kansas)

Kansas  or Water-Resources Regions



Choose a data retrieval option and select a location on the map  
 List of all stations  Single station  Nearest stations

Explanation - Percentile classes				
New low	<=5	6-9	10-24	Not ranked
Extreme hydrologic drought	Severe hydrologic drought	Moderate hydrologic drought	Below normal	

WaterWatch: Water Resources Conditions

Summary Hydrograph Peak Forecast Rating

USGS **07143330** ARKANSAS R NR HUTCHINSON, KS

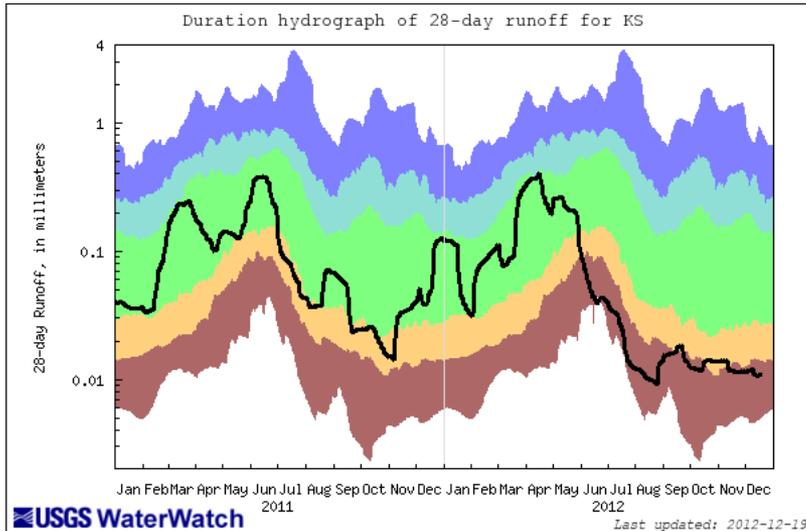
Drainage area:	38910 mi <sup>2</sup>
Discharge:	39.18 cfs
Date:	2012-12-18
No. of days:	28
Percentile:	1.85 %
Class symbol:	
% normal (median):	19.39 %
% normal (mean):	12.87 %

# USGS Drought Monitoring Products

## USGS State-Based Runoff Duration Hydrograph Builder

State:  Year:  No. of years:  Runoff type:

For some streams, flow statistics may have been computed from mixed regulated and unregulated flows; this can affect depictions of flow conditions.



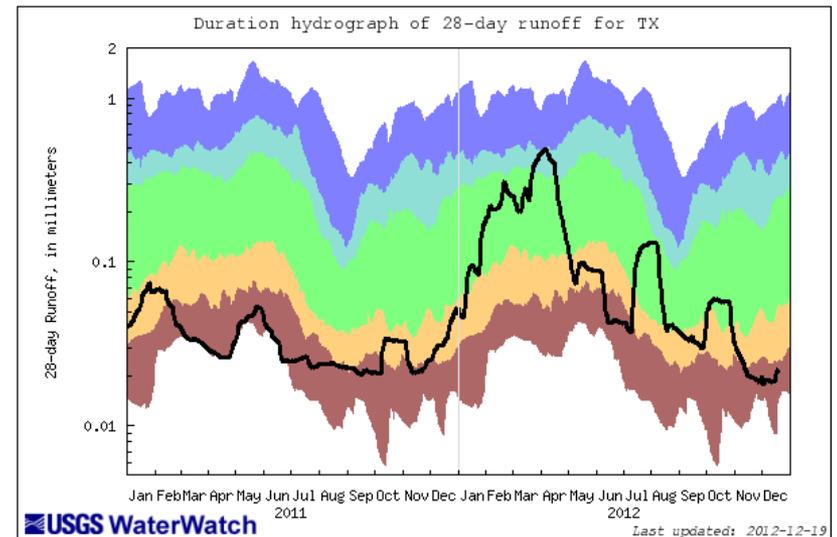
Explanation - Percentile classes					
lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	

## State Duration Hydrograph (runoff)

## USGS State-Based Runoff Duration Hydrograph Builder

State:  Year:  No. of years:  Runoff type:

For some streams, flow statistics may have been computed from mixed regulated and unregulated flows; this can affect depictions of flow conditions.



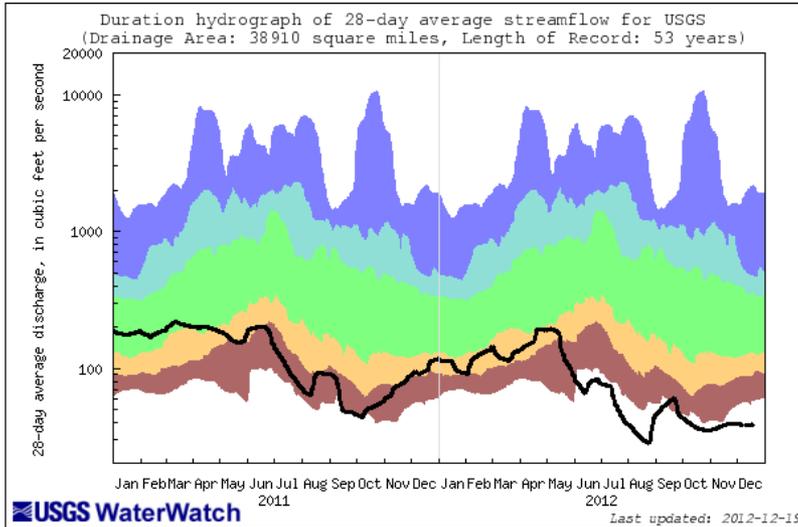
Explanation - Percentile classes					
lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	

# USGS Drought Monitoring Products

## USGS Streamflow Duration Hydrograph Builder

Site Number: 07143330 Year: 2012 No. of years: 2 Flow type: 28-day streamflow GO

For some streams, flow statistics may have been computed from mixed regulated and unregulated flows; this can affect depictions of flow conditions.



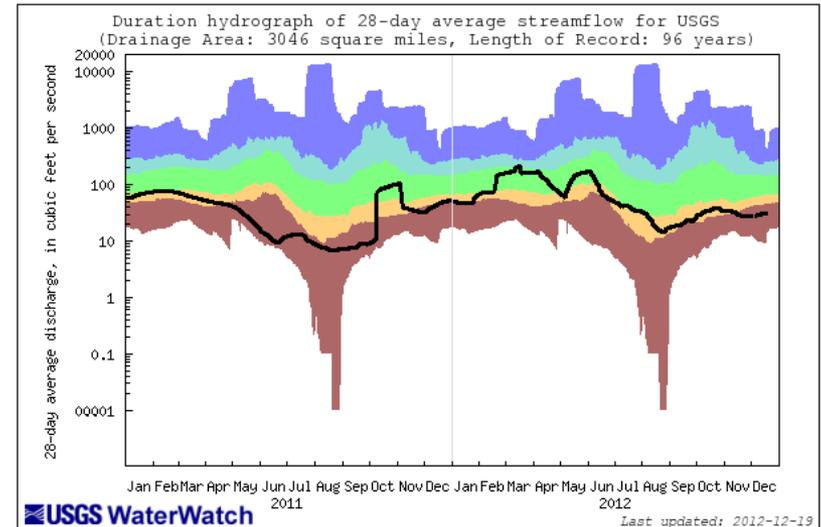
Explanation - Percentile classes					
lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest	Flow
Much below normal	Below normal	Normal	Above normal	Much above normal	

## Site Duration Hydrograph (streamflow)

## USGS Streamflow Duration Hydrograph Builder

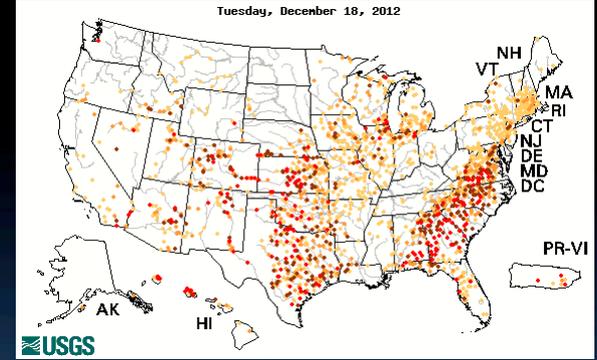
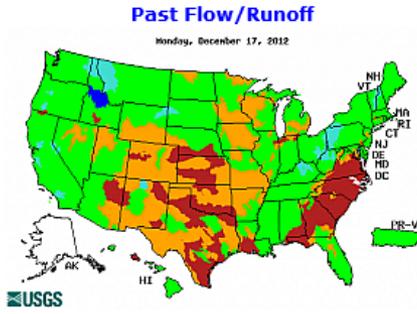
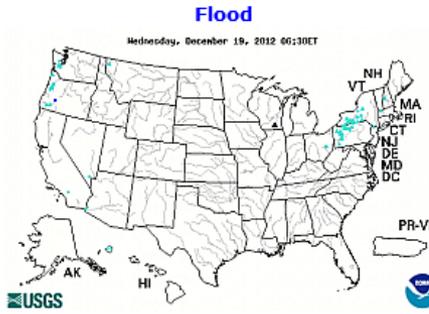
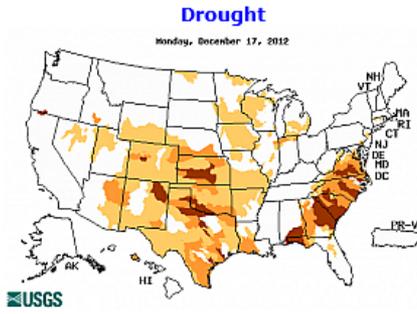
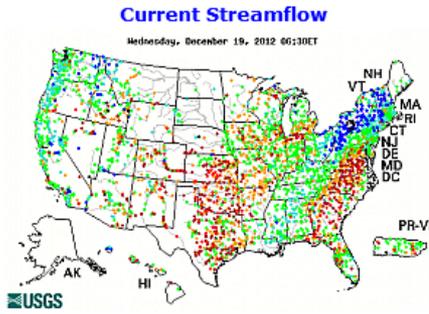
Site Number: 08146000 Year: 2012 No. of years: 2 Flow type: 28-day streamflow GO

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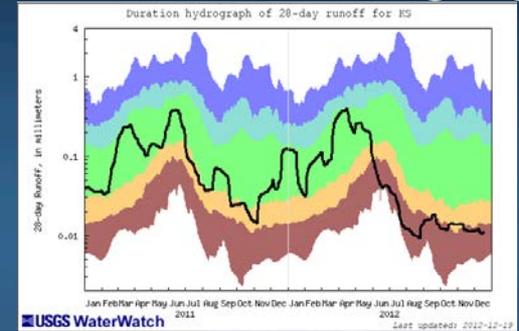


Explanation - Percentile classes					
lowest-10th percentile	10-24	25-75	76-90	90th percentile-highest	Flow
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# Questions?



<http://waterwatch.usgs.gov/>



Arkansas River at Great Bend, Kansas  
7/31/12, Photographer Nathan Sullivan, USGS