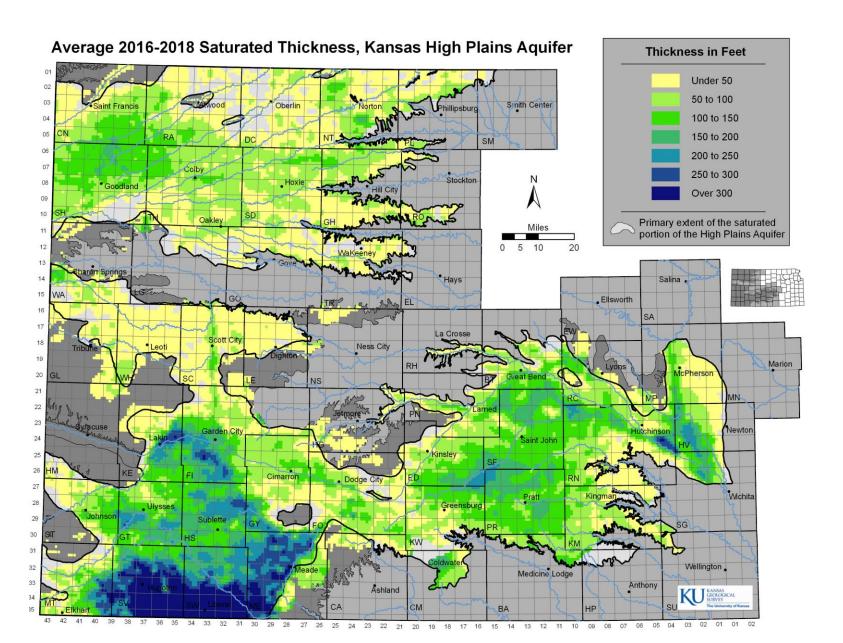
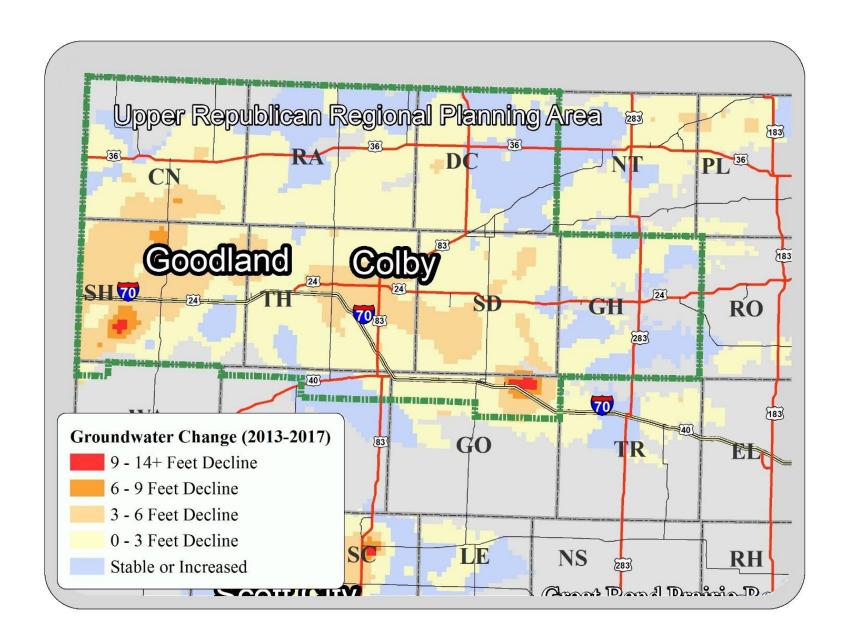
# Upper Republican/Upper Smoky Hill Common Goals and Progress

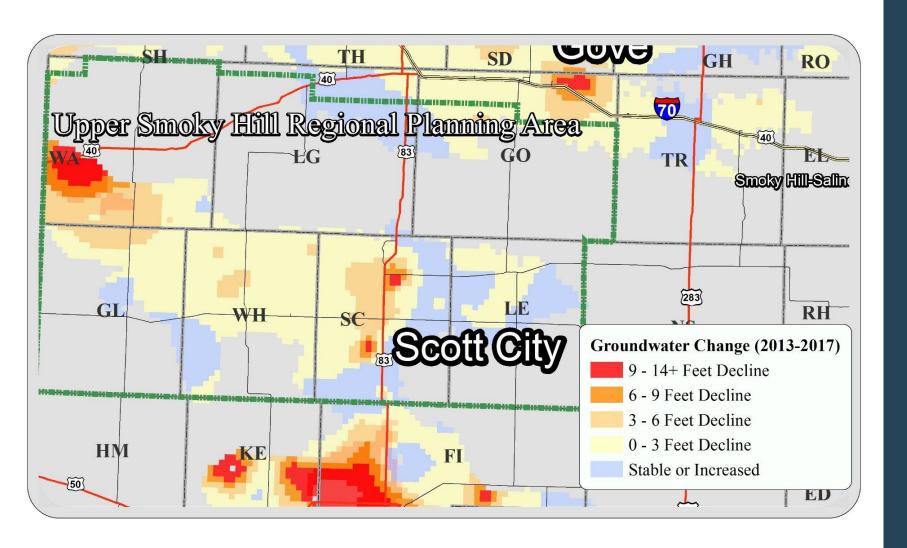
#### Saturated Thickness



## Upper Republican Declines



## Upper Smoky Hill Declines



#### Groundwater Declines

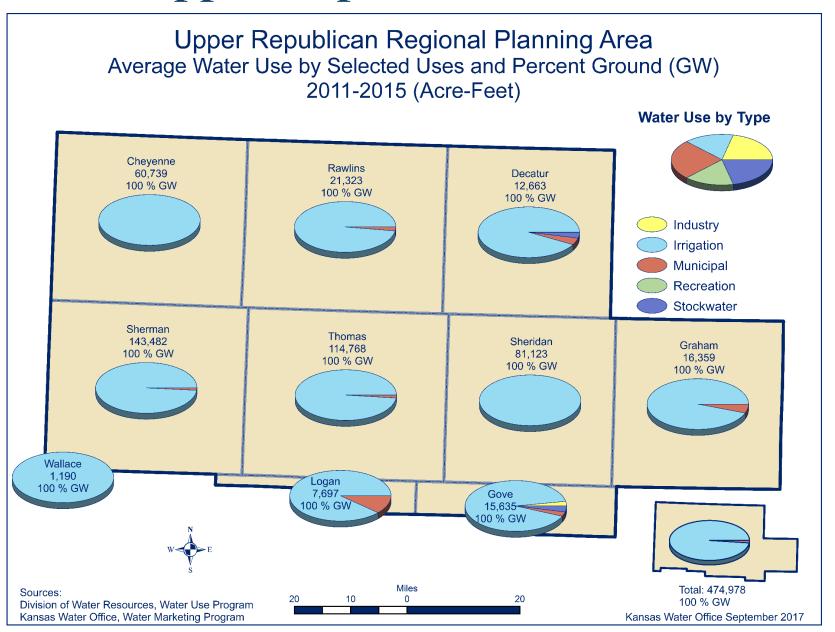
Region	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	10 Year Change	Average Annual Change (2007-16)
Cimarron	-2.37	-2.90	-1.65	-2.52	-3.93	-3.63	-1.72	-1.90	-0.91	-1.29	-22.81	-2.28
Equus-Walnut	1.87	1.56	0.00	-0.80	-2.96	-1.48	2.44	-1.21	1.38	1.94	2.74	0.27
<b>Great Bend Prairie</b>	3.11	0.59	0.70	-0.46	-2.88	-1.89	0.55	-0.68	-0.26	0.51	-0.69	-0.07
Upper Arkansas	-1.47	-2.29	-1.28	-2.97	-2.64	-2.82	-2.40	-1.85	-0.70	-0.45	-18.86	-1.89
Upper Republican	-0.69	-0.20	0.18	-0.39	-0.42	-1.40	-0.64	-0.39	-0.53	-0.29	-4.77	-0.48
Upper Smoky Hill	-0.87	-0.41	-0.22	-0.52	-1.01	-1.41	-0.63	-0.44	-0.13	-0.32	-5.96	-0.60
ENTIRE HIGH PLAINS AQUIFER REGION	-0.09	-0.60	-0.24	-1.08	-1.93	-1.98	-0.65	-0.93	-0.39	-0.12	-8.00	-0.80

Increase =

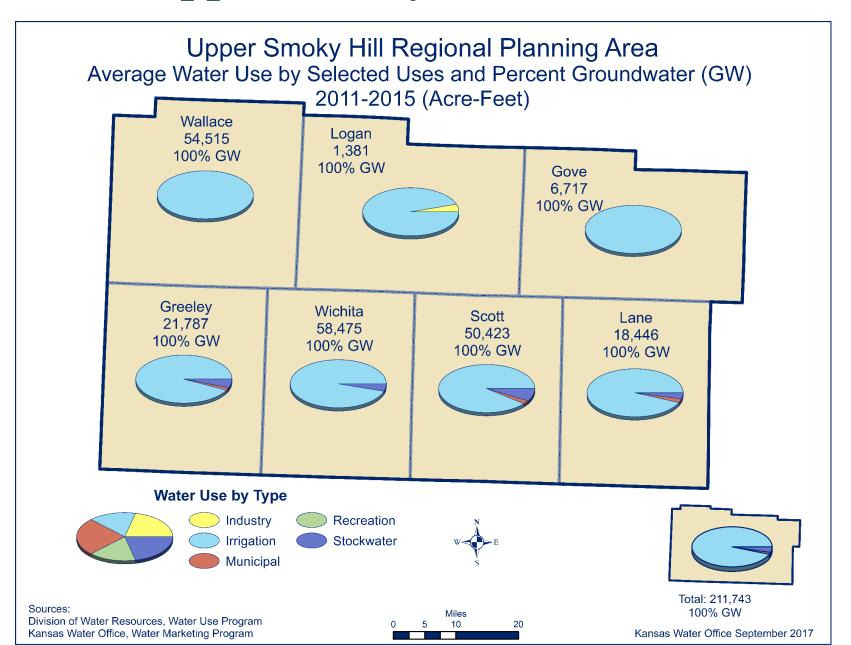
Decrease =

Unchanged =

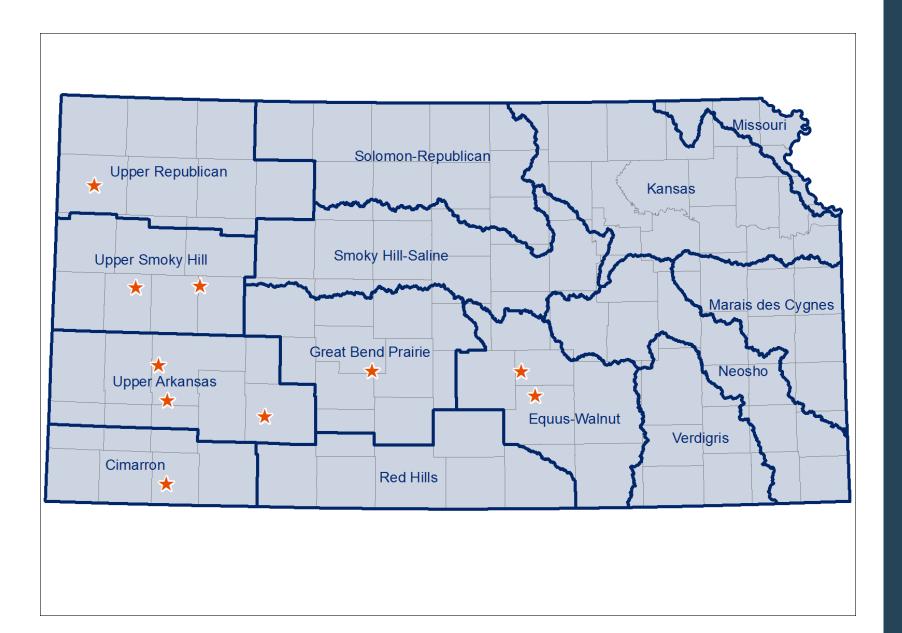
#### Upper Republican Water Use



#### Upper Smoky Hill Water Use



#### Water Technology Farms



# Upper Republican

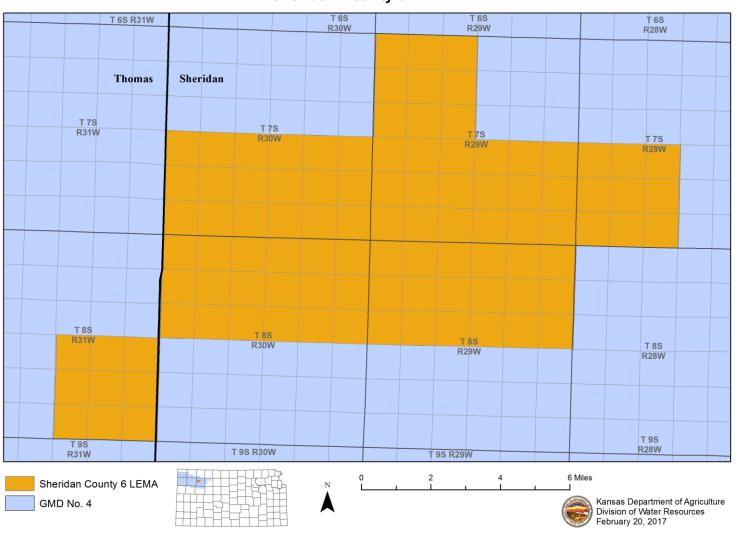
#### **WCAs**

Three WCAs cover 3,177 acres of the 406,685 irrigated acres in the region, equating to 0.8% of the average total of irrigated acres.

Two WCAs are pending that would add an additional 7,055 acres.

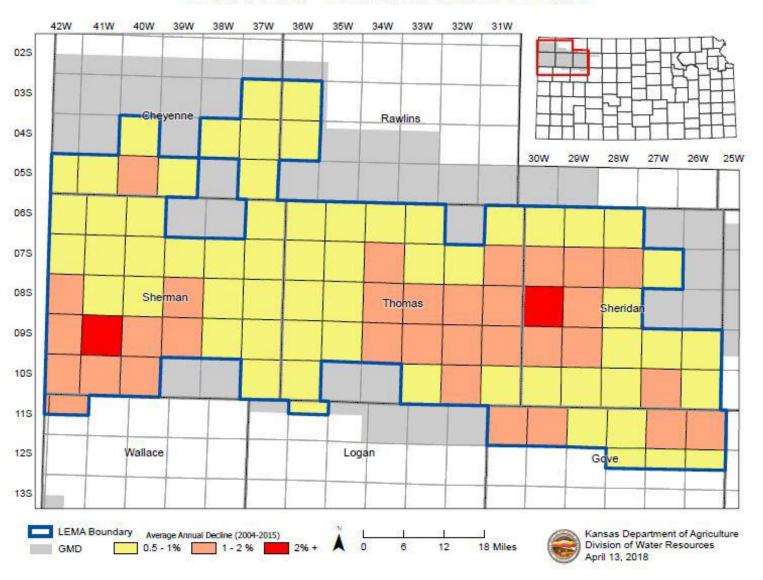
#### Sheridan 6 LEMA: 2018 - 2022

#### **Sheridan County 6 LEMA**

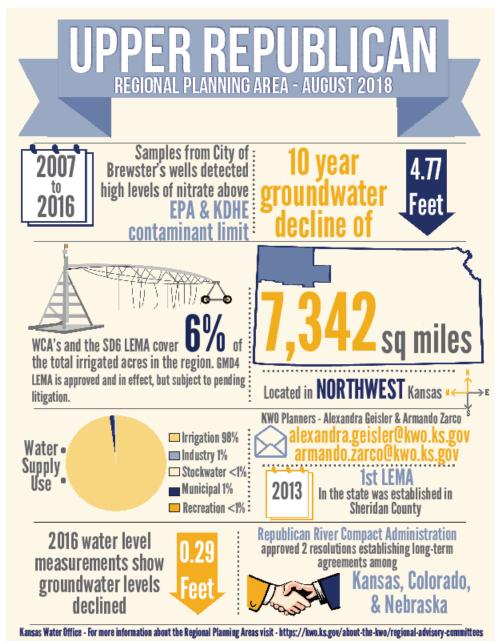


#### GMD4 District LEMA: 2018 - 2022

#### GMD No. 4 District-Wide LEMA



#### Education

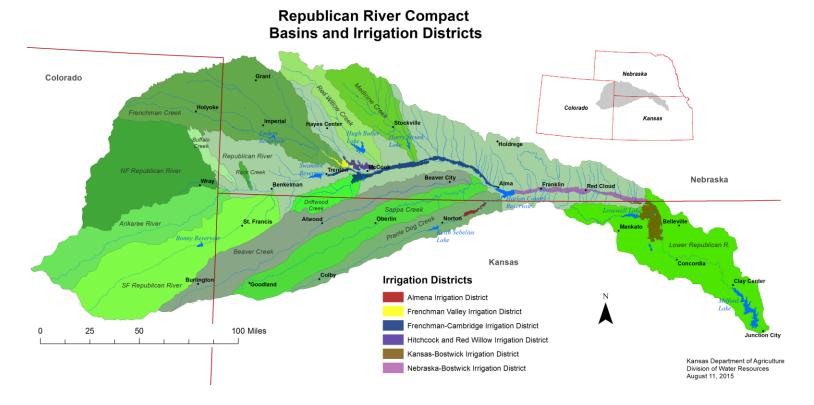


Focus on committee lead outreach using SOTR information.

Looking to put together three versions of the same presentation including:

- Technical
- General Public
- Kids

#### Republican River Compact

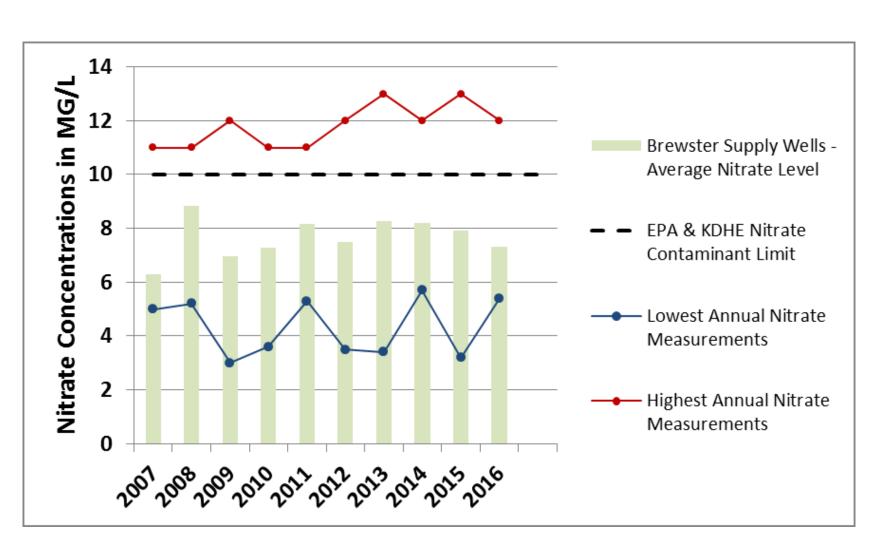


August 2018 a \$4m settlement was reached with Colorado

- \$2m to Colorado the benefit of the South Fork of the Republican River Basin within Colorado
- \$2m to Kansas the benefit of the South Fork of the Republican River Basin within Kansas

### Water Quality Concerns

Working on the development of a new water quality goal.



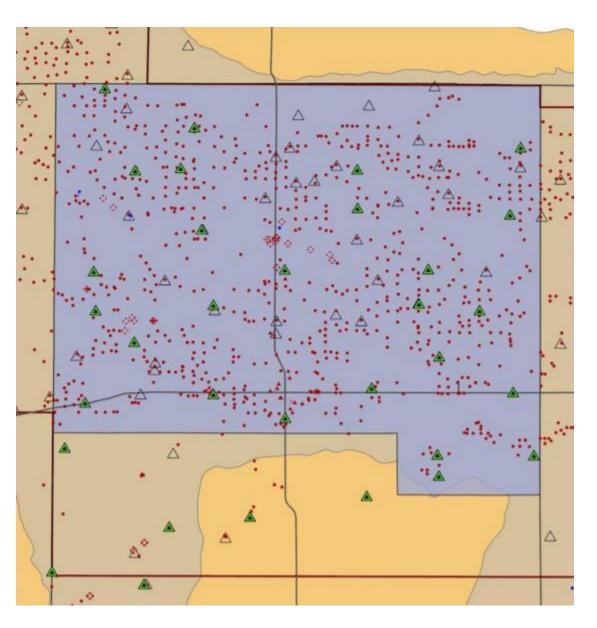
# Upper Smoky Hill

#### **WCAs**

Four WCAs cover 15,048 acres of the 213,696 irrigated acres in the region, equating to 7% of the average total of irrigated acres.

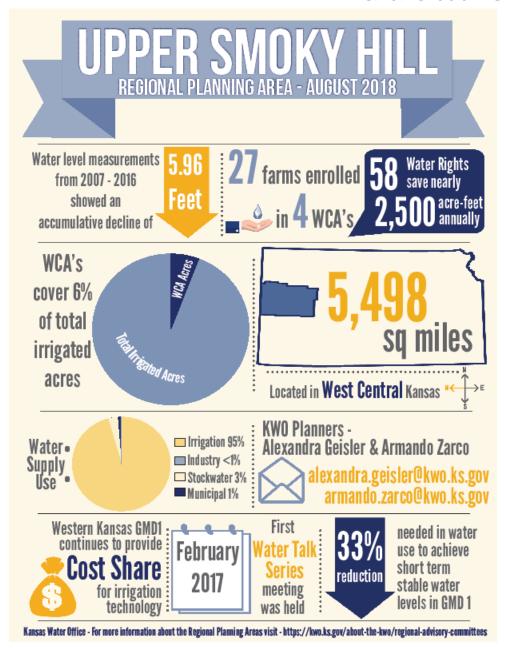
One WCA is pending that would add an additional 1,027 acres.

## LEMA Development



Using a county by county approach starting with Wichita County.

#### Education



2018 High School education initiative to develop water related projects and curriculum specific to Western Kansas.

#### Best Management Practices & Other Ideas

#### **BMPs**

- > Development and implementation of BMP Plans for all municipal, stockwater, and industrial users within the region.
- > Addresses goals 3-5
- > There has been limited progress

#### **Other Ideas**

- > Stockwater reuse project
- > Water meter app

# Moving Forward

## Bringing It All Together

Sharing of Ideas & Potential for Collaboration

WCAs & LEMAs

Education

Other Ideas?