



WATER RIGHTS IN KANSAS

KELLY STEWART

Water Commissioner

Stockton Field Office

Overview

- Kansas Water Appropriation Act
- Beneficial Uses of Water
- Permit Types & Requirements
- Limited water in Kansas
- Major Groundwater Sources
- Groundwater Managements Districts
- Safe Yield
- Stratigraphic Log Requirements
- Water Level Measuring Tubes
- Water Right Perfection & Certification Process
- Water Availability
- Protections
- LEMAs & IGUCAs
- Annual Water Use – Water Use Reporting
- Applications, Fees, Violations, & Penalties
- WIMAS
- Meters

Kansas Water Appropriation Act (KWAA)

- Since 1945 – Right to use water based on prior appropriation or "First in time – First in right"
- **All** water is dedicated to the use of the people of Kansas
- Limits rights to reasonable needs
- Allows a limited resource to be allocated for beneficial use and to protect minimum desirable streamflows
- Protects investments, property rights and the resource
 - A water right does not grant ownership of water. It is a real property right to divert and use water for beneficial purposes with reasonable limitations

Some Quick (and Shortened) Definitions

- **Vested Right**: a right to use water for beneficial use that was recognized, on or before June 28, 1945.
- **Water Appropriation**: a right to divert water at a specific amount, rate, use, etc. *In general, non-certified files are referred to as water appropriations.*
- **Water Right**: any vested right or appropriation right. *In general, certified files are referred to as water rights.*

Why do I need a Water Right?



- Water is protected for the use and benefit of the citizens of the state in order of priority
- KDA-DWR issues permits to appropriate water, regulate usage & keeps records of all water rights
- It is illegal to use water without holding a vested right, or applying for & receiving a permit to appropriate water from DWR
- Exception is domestic use – household, 2 acres of lawn & garden use, livestock on pasture & secondary uses

Beneficial Uses of Water



A **Beneficial Use of Water** is described as water that is used for financial purposes or aesthetic value and classified under one of the fourteen uses listed in KAR 5-1-1.

Others:

- Municipal
- Domestic
- Dewatering
- Hydraulic Dredging
- Thermal Exchange

Permit Types

Appropriation of Water

- Goes through a perfection period to determine the perfected amount of water for the approved use
- Becomes an actual property right tied to the place of use

Term Permits

- Finite projects lasting longer than 6 months or needing more than 4 mg
- Commonly used for contamination remediation , oil/gas wells, dewatering & construction
- No well log if less than 5 years

Temporary Permits

- Last for no more than 6 months
- A quantity of water no greater than 4 mgd at the place of use, unless for dewatering or wind farms
- Most commonly used for oil/gas wells, dewatering, and wind farm construction
- No well log required

Domestic Use

- Not required to have a permit, but may be recognized
- Irrigate up to 2 acres (lawn & garden) & watering livestock at pasture
- Household purposes

Permitting Requirements



KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

File Number _____
This item to be completed by the Division of Water Resources.

APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

Filing Fee Must Accompany the Application
(Please refer to Fee Schedule attached to this application form.)

To the Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture,
1320 Research Park Drive, Manhattan, Kansas 66502:

1. Name of Applicant (Please Print): _____
Address: _____
City: _____ State _____ Zip Code _____
Telephone Number: (____) _____

2. The source of water is: ☐ surface water in _____ (stream)
OR ☐ groundwater in _____ (drainage basin)

Certain streams in Kansas have minimum target flows established by law or may be subject to administration when water is released from storage for use by water assurance district members. If your application is subject to these regulations on the date we receive your application, you will be sent the appropriate form to complete and return to the Division of Water Resources.

3. The maximum quantity of water desired is _____ acre-feet OR _____ gallons per calendar year,
to be diverted at a maximum rate of _____ gallons per minute OR _____ cubic feet per second.

Once your application has been assigned a priority, the requested maximum rate of diversion and maximum requested quantity of water under that priority number can **NOT** be increased. Please be certain your requested maximum rate of diversion and maximum quantity of water are appropriate and reasonable for your proposed project and are in agreement with the Division of Water Resources' requirements.

4. The water is intended to be appropriated for (Check use intended):
(a) ☐ Artificial Recharge (b) ☐ Irrigation (c) ☐ Recreational (d) ☐ Water Power
(e) ☐ Industrial (f) ☐ Municipal (g) ☐ Stockwatering (h) ☐ Sediment Control
(i) ☐ Domestic (j) ☐ Dewatering (k) ☐ Hydraulic Dredging (l) ☐ Fire Protection
(m) ☐ Thermal Exchange (n) ☐ Contamination Remediation

YOU **MUST** COMPLETE AND ATTACH ADDITIONAL DIVISION OF WATER RESOURCES FORM(S) PROVIDING INFORMATION TO SUBSTANTIATE YOUR REQUEST FOR THE AMOUNT OF WATER FOR THE INTENDED USE REFERENCED ABOVE.

- Source of supply
- Proposed place of use, point of diversion & type of use
- Maximum rate of diversion & quantity of water requested
- If applying for groundwater, a test hole log or well log within 300 feet of proposed well
- Names of well/landowners within 1/2 mile
- Justification for amount of water requested – must be reasonable for intended use
- Must meet minimum well spacing and safe yield (K.A.R. 5-4-4 & 5-3-10)
- Evidence of legal access to the point of diversion

Limited Water in Kansas

- Variability in hydrologic conditions across the state
 - Average precipitation ranges from 16 inches in Western Kansas to 40 inches in Eastern Kansas
 - Droughts can be persistent



Western Kansas

- Primarily relies on the Ogallala-High Plains aquifer for its water supply



Eastern Kansas

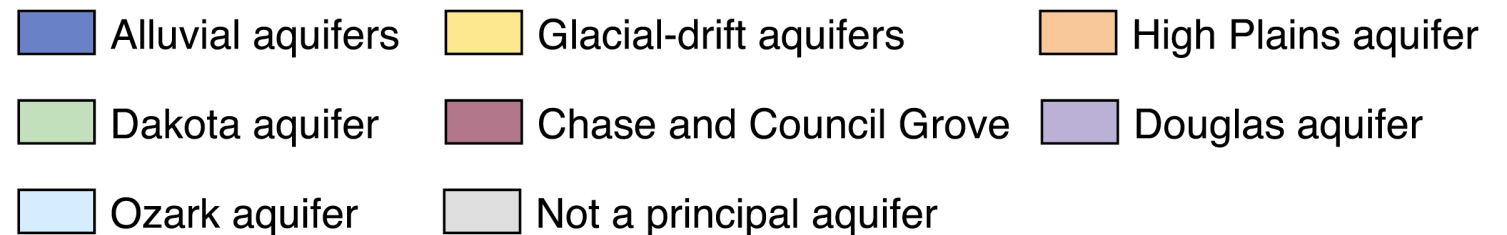
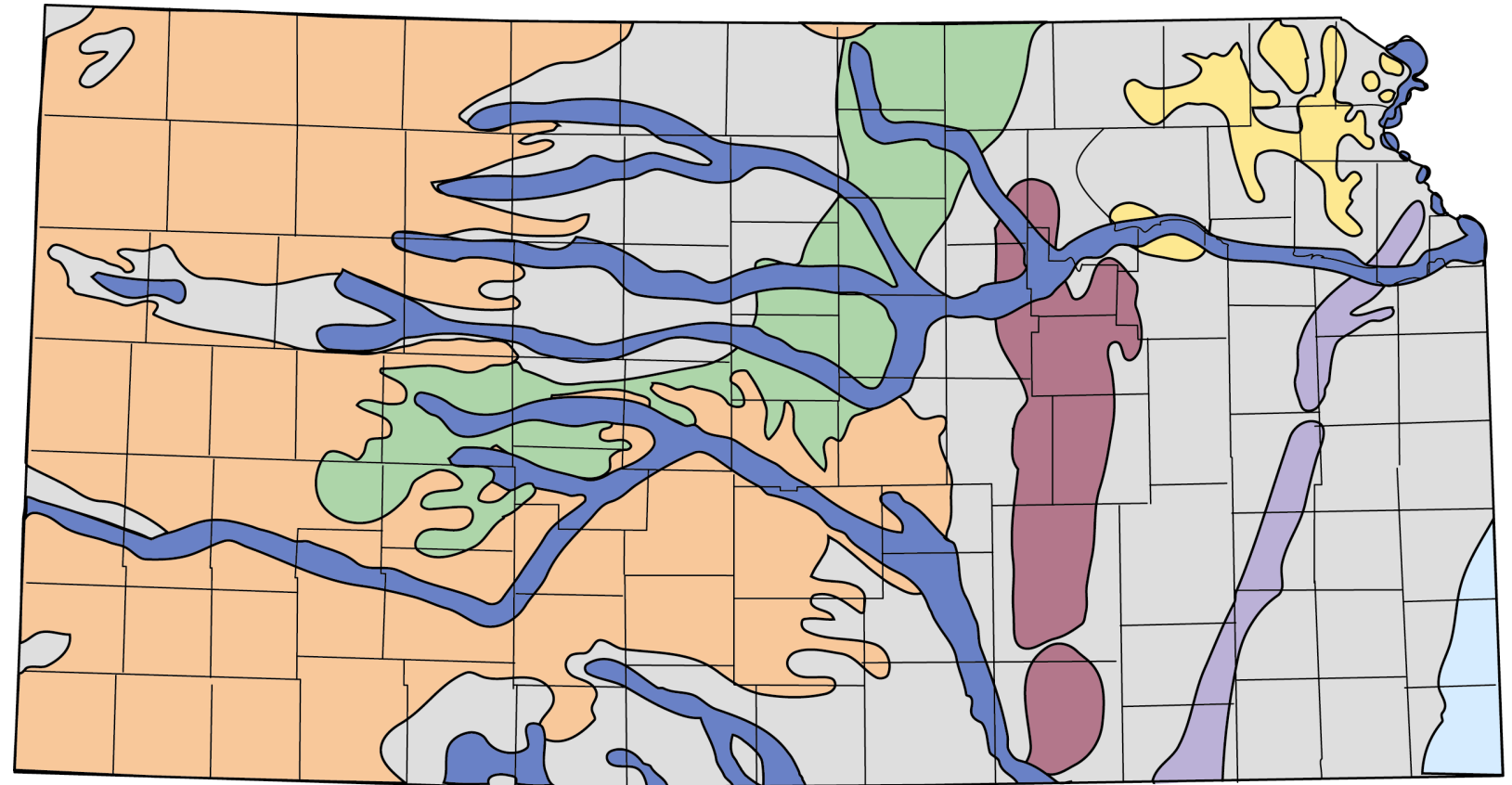
- Primarily relies on surface water supplies



Central Kansas

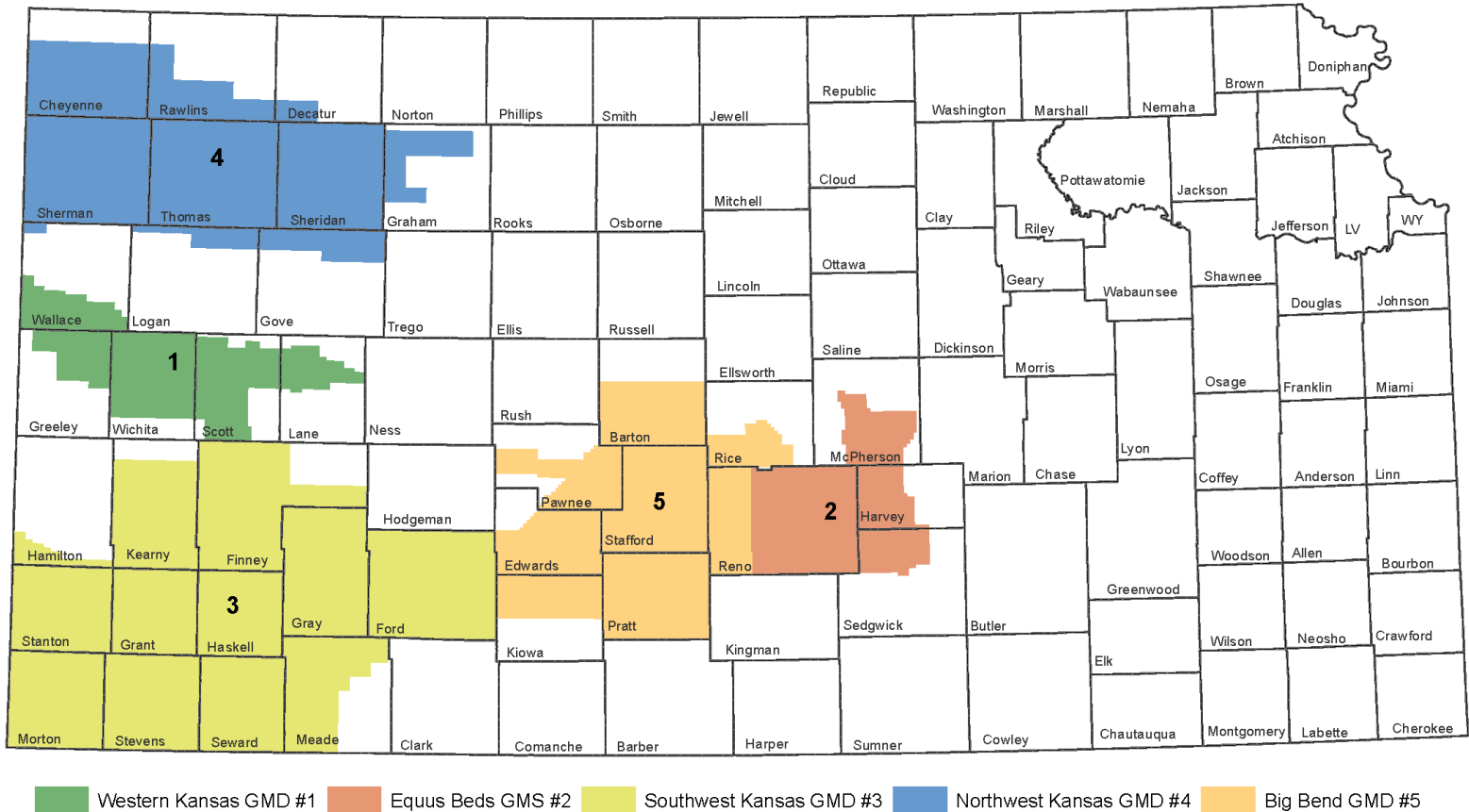
- Relies on a mixture of surface and groundwater

Major Groundwater sources in Kansas

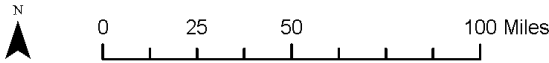


Groundwater Management Districts (GMDs)

Groundwater Management Districts in Kansas

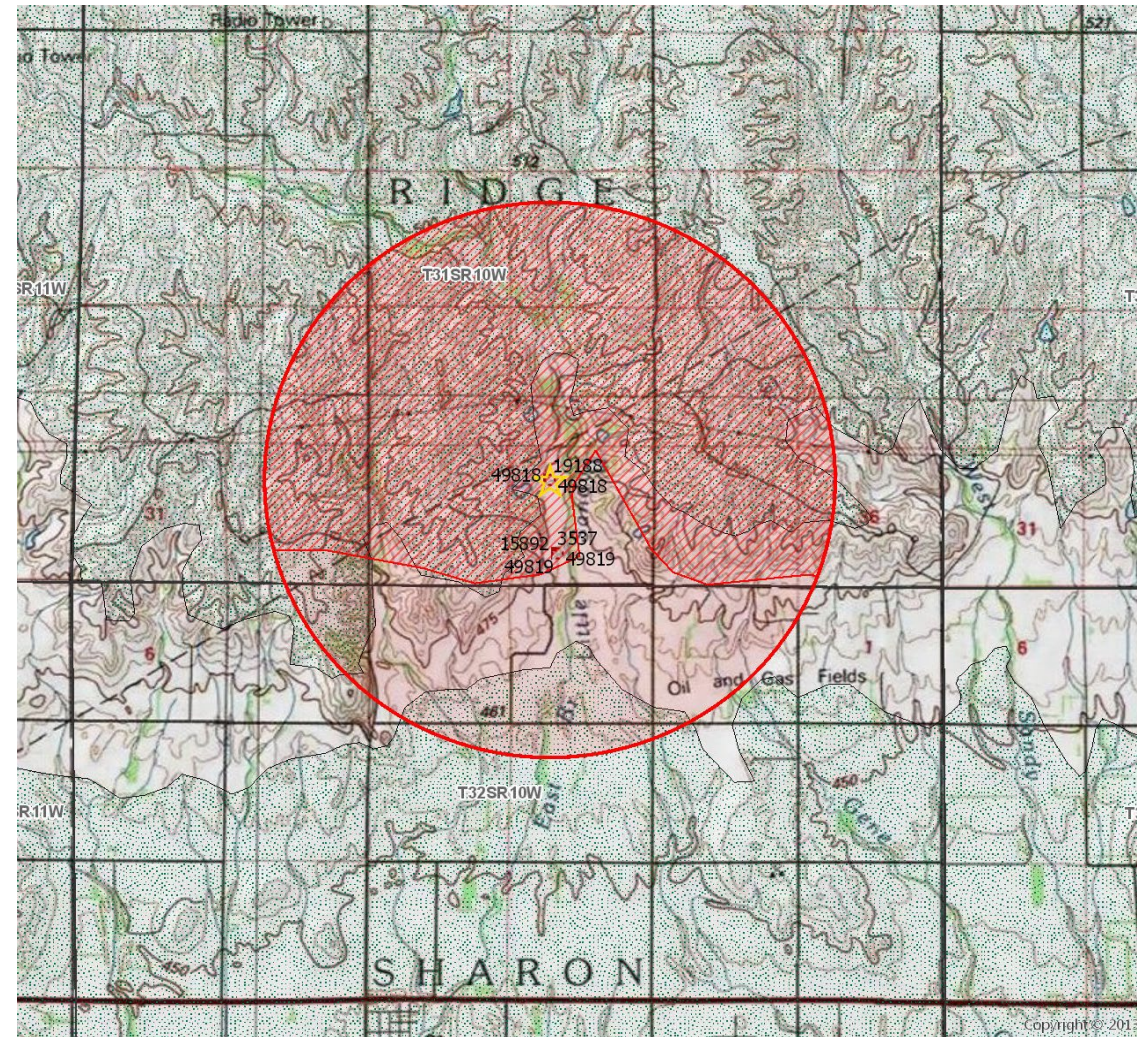


Disclaimer - Features on this map represent conditions as of the date of the map and are subject to change. The user is referred to specific policies, regulations, and/or orders of the Chief Engineer.



Groundwater - Safe Yield

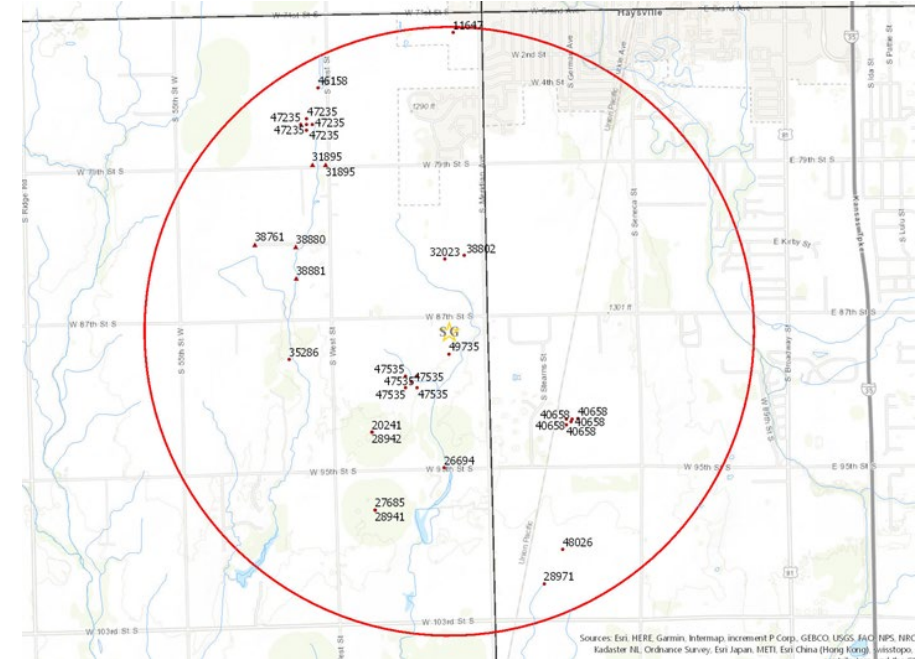
- Process of determining the amount of water available to sustainably appropriate at a specific location.
- For groundwater, the extent of the aquifer was determined within a 2-mile radius of the point of diversion.
- A quantity of water is calculated that can be safely appropriated based on an estimate of precipitation recharge multiplied by the percentage determined by the Chief Engineer to be available for non-domestic uses.
- That quantity is compared to the quantity of water that has already been appropriated within the area of consideration
- If the remaining quantity of water available is sufficient for the application, it will be approved, if not, it will be denied.



Alluvium to the south was removed from the Safe Yield analysis due to determination of different source of supply

Safe Yield – continued

- Term Permits are not subject to safe yield as long as the term extent does not exceed 5 years
- Temporary Permits are not subject to safe yield
- Domestic use is not subject to safe yield



Analysis Results

The selected PD is in an area **OPEN** to new appropriations.

The safe yield based on the variables listed below is 2,714.34 AF.

Total prior appropriations in the circle is 2,482.41 AF.

Total quantity of water available for appropriation is **231.93 AF**.

Safe Yield Variables

The area used for the analysis is set at 8,042 acres.

The potential annual recharge at the circle center is estimated to be 5.4 inches.

The percent of recharge available for appropriation is 75%.

Authorized Quantity values are as of 20-APR-2018 and are based on Appropriated and Vested ground water right and possible stream nodes for GMD #2. Domestic, Term and Temporary water rights have been excluded.

There are 20 water rights and 31 points of diversion within the circle.

[illegible]

- www.kgs.ku.edu

associated DRILLING, INC.

201 Industrial Rd., PO Box 7, Olsburg, KS 66520
(785) 468-3324, Fax: (785) 468-3363

October 24, 2017

Test hole log for

The location of the test hole is approximately 2 miles west and ½ mile south of Corning, Kansas. The latitude and longitude coordinates of the test hole are N 39.656002 W 96.072551.

0-3	Top soil
3-125	Clay, brown to gray
125-151	Sand fine, trace medium grades to med. at 146 ft.
151-169	Clay, gray
169-178	Sand, fine
178-190	Clay, gray
190-197	Sand, fine
197-266	Clay, gray
266-317	Sand, fine with clay
317-324	Gravel, pea, sub angular
324-326	Shale, gray
326	Limestone, total depth

Static Water Level estimated at 100 feet below ground surface.

The test hole is estimated to yield over 200 gpm based on the gravel thickness and the history of other wells in the area.

Darin R. Duncan, PG
Associated Drilling, Inc.

Glacial deposits in Nemaha Co.

Test Hole Log Examples

Williams Drilling Co., Inc.
P. O. Box 327 6204 Spur 85D
Belvidere, Nebraska 68315
Phone 800-477-3745 Fax 402-768-6099

Test Hole
SE ¼ of Sec 10 – T8S – R4W in Cloud County
39° 22' 15.31"
97° 44' 56.62"

0 – 2	Top Soil
2 – 5	Gray Clay
5 – 8	Brown Dirt
8 – 13	Orange Clay
13 – 57	Fire Clay
57 – 105	Sand Stone
105 – 106	Clay Layer
106 – 154	Sand Stone
154 – 168	Clay Layer
168 – 176	Sand Stone
176 – 184	Clay Layer
184 – 200	Shale

Unconfined Dakota system in
Cloud Co.

Water Level Measuring Tubes

***Must have if rate greater
than 100 gpm**



Good, no problems



Bad cap, electrical tape



No cap

Water Right Perfection



Perfection Period

- The time during which a water appropriation is developed; including completing the diversion and distribution system, as well as applying water in compliance with the permit

Certificate of Appropriation

- A legal document issued after the perfection period that contains the same types of information as the permit to proceed, but the values are based on what was actually done during the perfection period

Process - From Application to Certificate

File an Application

- Know what you need, where it is coming from, and where it is going to
- Have data to back up what you need
- Assistance available at the local field office

After the permit is approved, complete the diversion works

- Install the well/surface diversion and meter it with an approved meter
 - A list of approved (certified) meters can be found online at www.agriculture.ks.gov
- File the Notice of Completion and pay the \$400 N&P fee
- Extension of time to complete can be requested - \$100 fee

After completion, use what you need during the perfection period

- Accurate records and water use reporting are vital
- Extensions of time to perfect can be requested - \$100 fee
 - Reminders are sent in October of the deadline year & a reason to extend must be given

Inspection of diversion works & continuation of perfection period

- Several visits made by DWR staff who will verify:
 - Well/surface diversion location
 - Meter type & installation
 - Place of use and rate of diversion

After expiration of the perfection period, DWR will issue a Certificate

- DWR will review the water use history to determine what was used from:
 - The permitted well(s) / surface diversion(s) as well as all of the diversions for the place of use
- A draft certificate will be sent to the landowner of record for review
- DWR will issue the final Certificate with corrections, if needed

Water Availability

In areas *closed* to new appropriations of water, additional water use for population growth, new industry, or feedlot can be accommodated through purchase and conversion of existing water rights

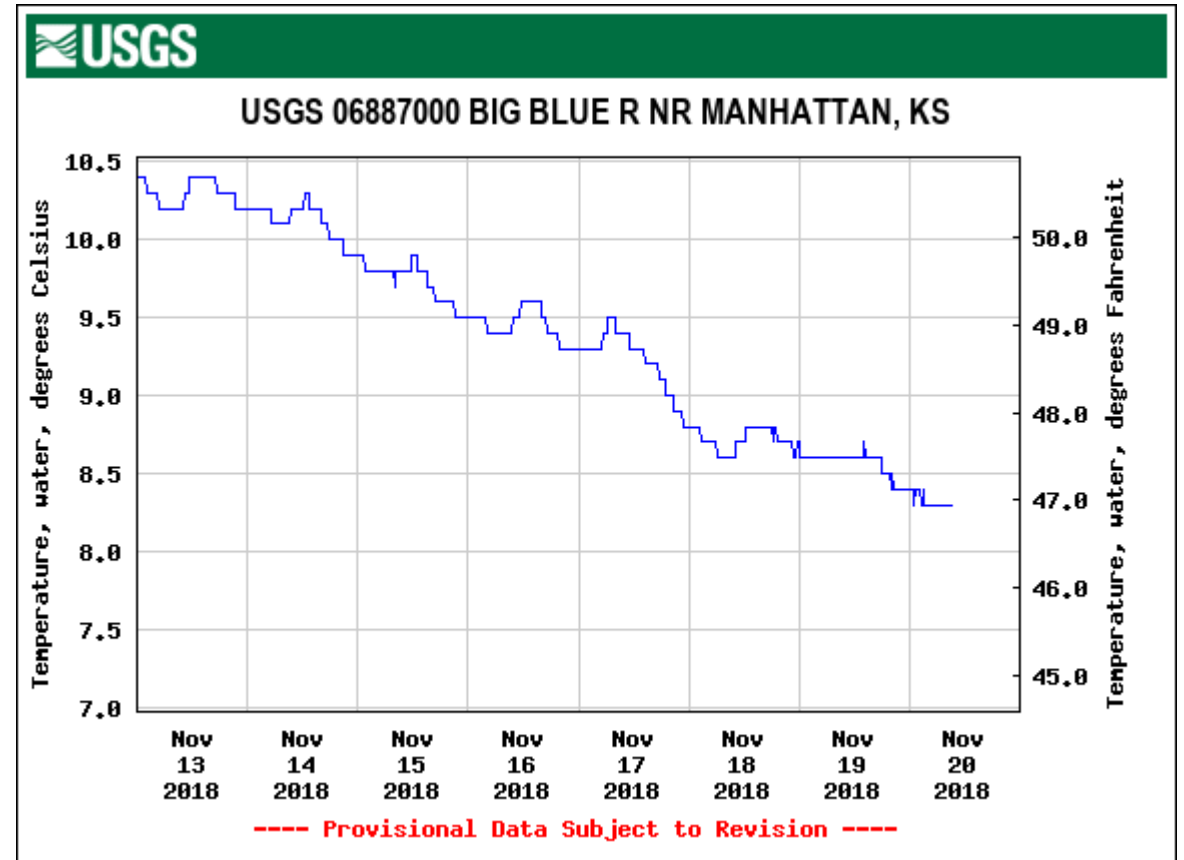
Changes must pertain to the same local source of supply

Changes from irrigation to another use such as stock or municipal cannot increase net consumptive use

We no longer have to worry about “use it or lose it” in closed areas in Kansas

Protections

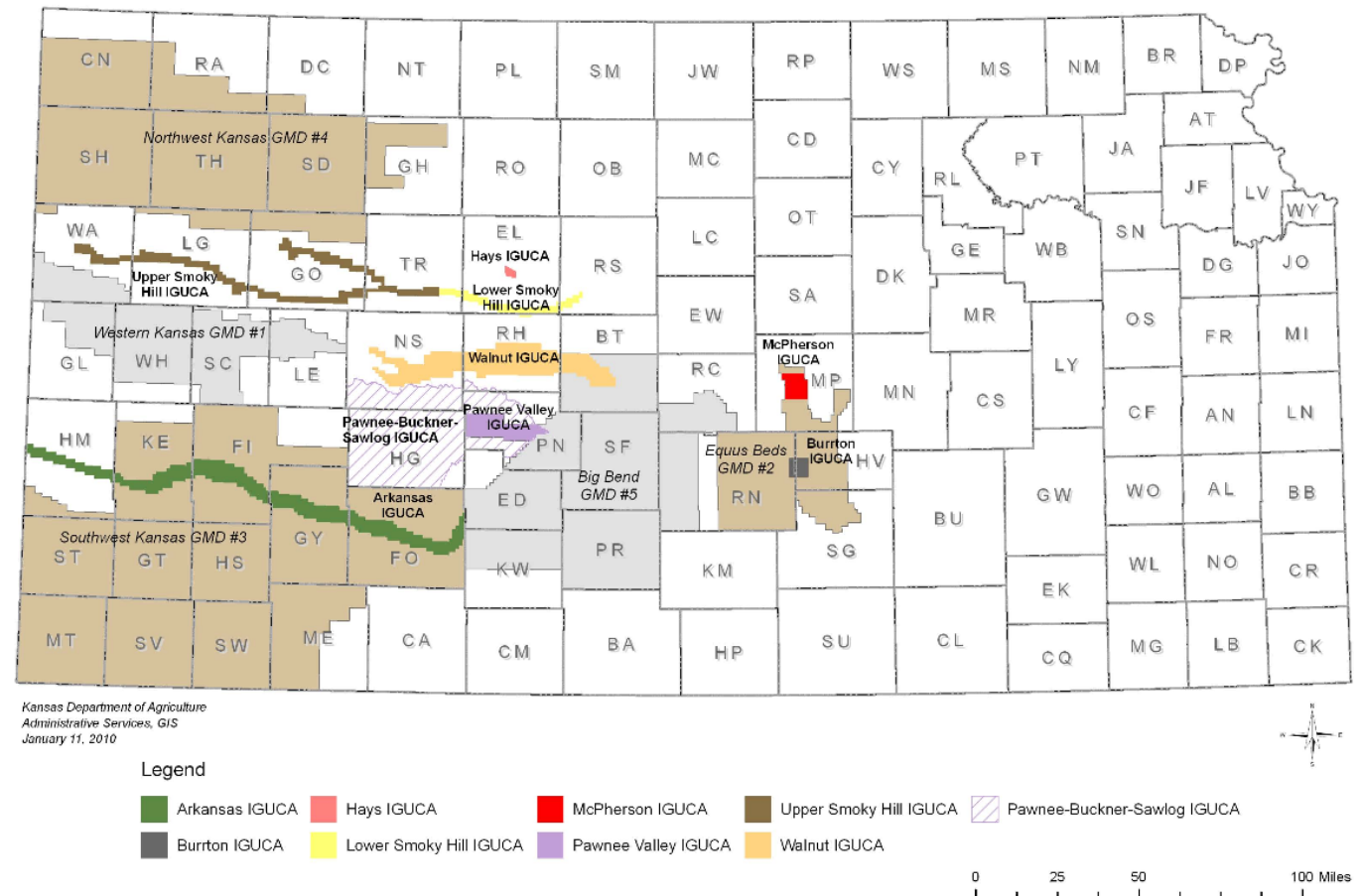
- During periods of shortage, junior water rights may be curtailed to satisfy senior water rights and minimum desirable streamflows
- Releases from storage are protected
- Strict first in time, first in right can be harsh
- Statutes provide additional comprehensive tools such as LEMAs and IGUCAs to deal with water problems



Intensive Groundwater Use Control Areas (IGUCA)

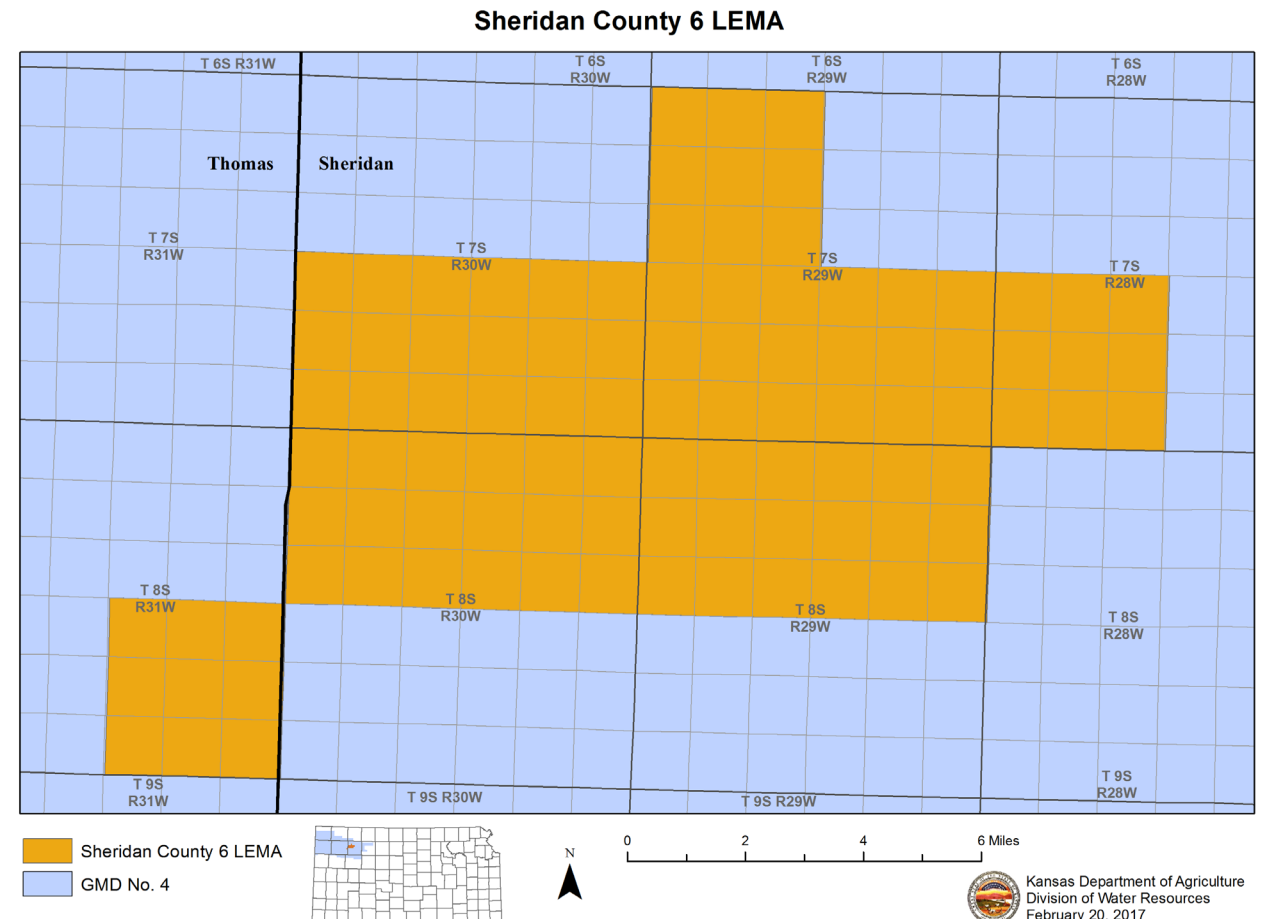
- Created in 1978 when permits were required
- Water Management tool that works in conjunction with the KWAA
- Allows for more-flexible solutions taking into account the area & aquifer
- Provides alternatives to strict administration of water rights by priority
- Formal public hearings are held
- Decision by the Chief Engineer based on hearing record

Intensive Groundwater Use Control Areas in Kansas



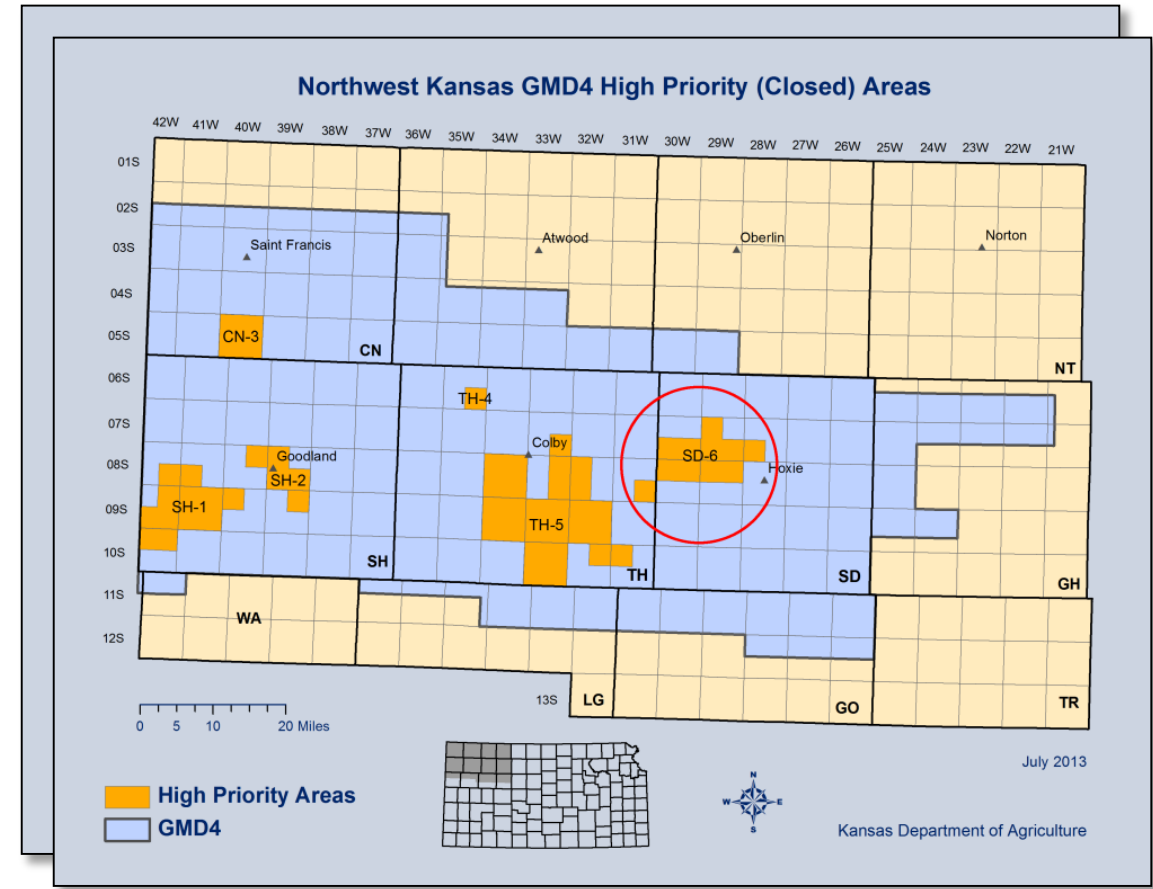
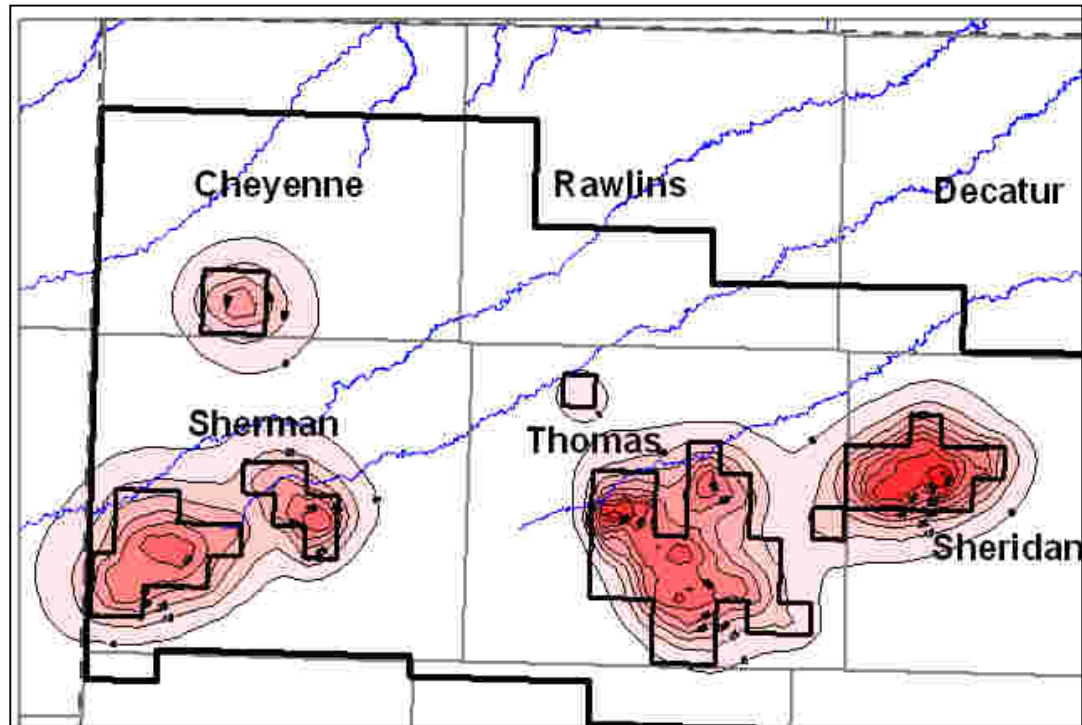
Local Enhanced Management Areas (LEMAS)

- Proactive plans developed by locals and GMDs
- Include conservation measures to address specific water resource problems
- Hearings before the Chief Engineer to adopt, reject or return plan to the GMD
- Shared solution respecting priority



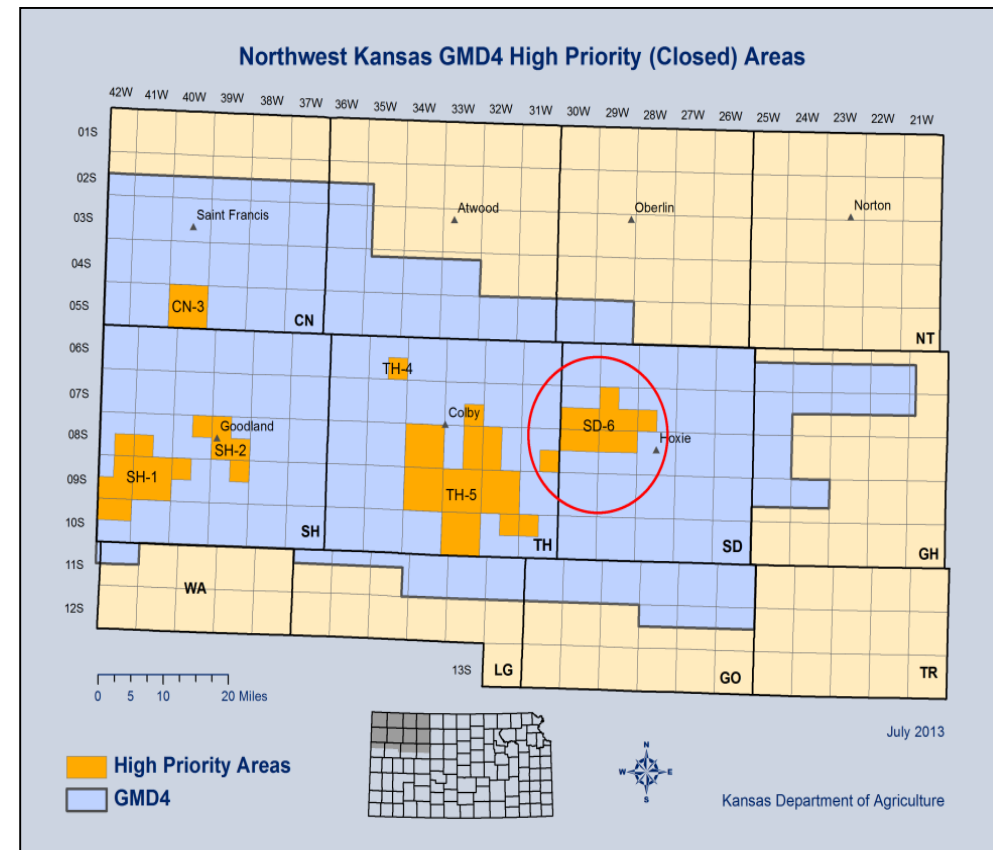
LEMA example

- GMD No. 4 identified high priority areas (HPA)
- Model demonstrated benefits of cuts stay put
- “Sheridan 6” HPA wanted to cut use by 20%
- Tried regulations and explored IGUCA option



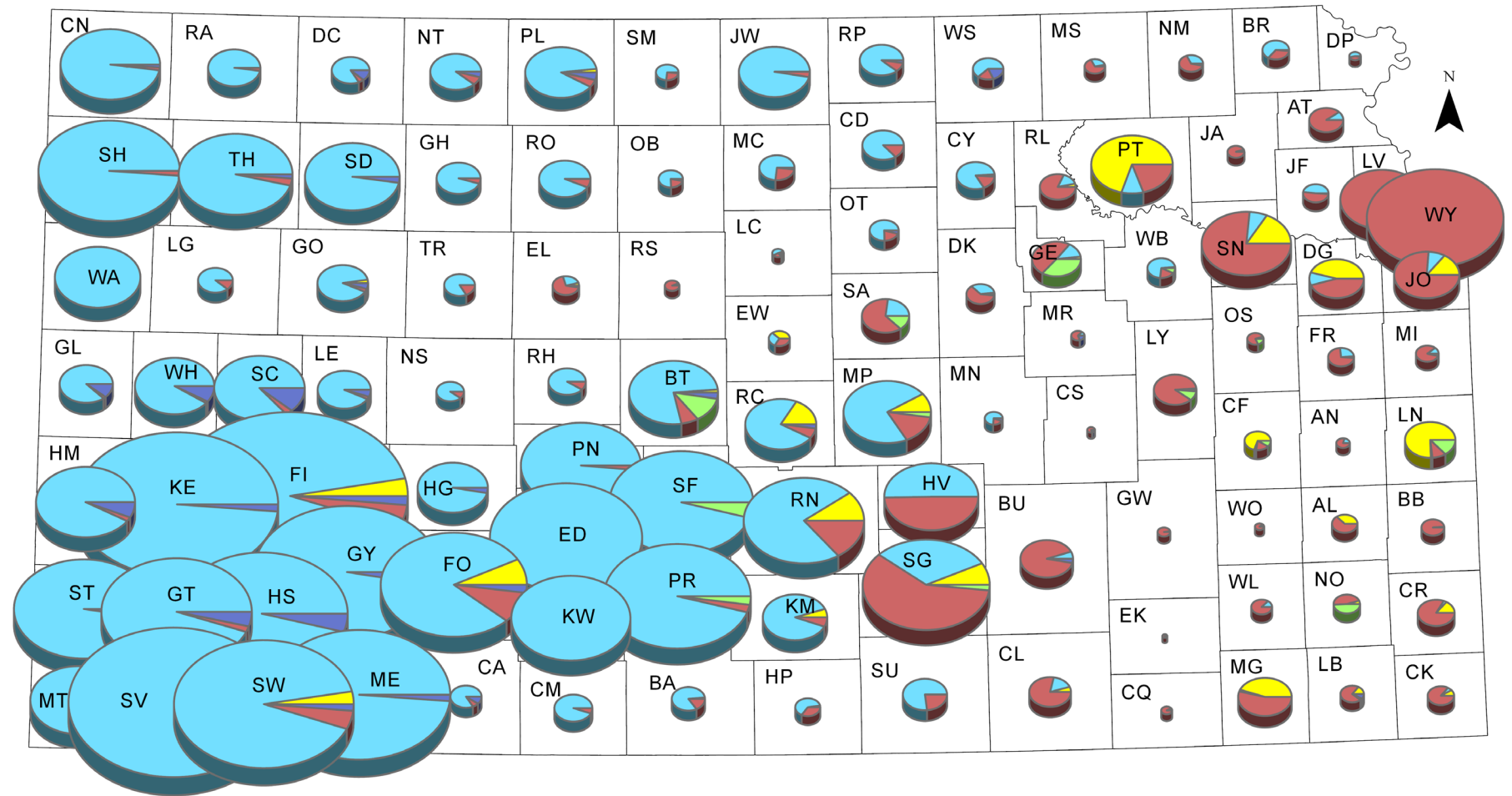
LEMA cont.

- GMD 4 now has adopted a LEMA that is district wide.
- Correction controls are based on inches per acre.
- The LEMA stood up in a legal challenge in district court.
- We have three LEMAs in Kansas. Two are in GMD 4 and one in GMD 1.
- GMD 4 is a leader in managing the Ogallala.

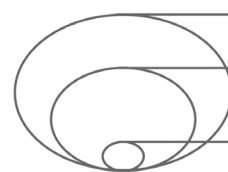
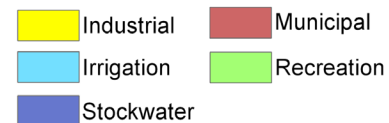


2019 Reported Water Use for Kansas Counties

Annual Water Use



Use Made of Water



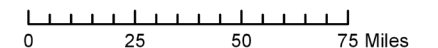
Seward: 137,728 AF

Reno: 61,746 AF

Atchison: 4,955 AF

Features on this map represent conditions as of the date of the map and are subject to change. The user is referred to specific policies, regulations and/or orders of the Chief Engineer.

Uses of water for artificial recharge, contamination remediation, dewatering, domestic, fire protection, hydraulic dredging, sediment storage, thermal exchange and water power are not shown on the charts.



Water Use Reporting

2017 IRRIGATION WATER USE REPORT

This is the annual Water Use Report required to be filed for all Vested or Appropriation Rights. **IMPORTANT:** Kansas Law requires this completed report to be filed by March 1. Failure to do so will subject the owner to a civil fine not to exceed \$1,000 per file number. If any point of diversion shown below is permanently inoperable, please circle it. IF YOU DID NOT USE WATER, YOU **MUST** REPORT THE REASON FOR NON-USE TO HELP PROTECT YOUR WATER RIGHT. Information on each point of diversion must be completed. Please begin by reading the attached instructions and definitions.

FILE NUMBER	LEGAL DESCRIPTION OF POINT(S) OF DIVERSION		CIN	CHM	ACRES IRR.	INCLUDE MULTIPLICATION FACTOR				UNITS	HOURS PUMPED	PUMP RATE (GPM)	CROP CODE	TYPE OF SYSTEM	TYPE OF ENERGY	WELL DATA	
	QUALIFIERS	SEC TWP RNG				BEGINNING WATER METER READING	ENDING WATER METER READING	METERED QUANTITY OF WATER	DEPTH TO WATER							DATE MEASURED	
33717-00	1020N 4980W	3- 1S-42W	2	N A	35	25,973	73,710	47,737	A	694	350	1	4	D	24	1/8/17	
33718-00	2180N 3780W	3- 1S-42W	3	Y A	130	147,160	327,270	180,110	A	1309	700	16	4	E	22	1/8/17	

Water Resources
Received
JAN 19 2018
KS Dept Of Agriculture

CALENDAR YEAR 17 PIN NUMBER 9931 Person ID 58818 FIELD OFFICE 1 1 - IRR Stock CN CO GMD 165 Total acres irrigated.

I submit the report as the best information available. I understand that knowingly falsifying the report is a violation of state law.
Signature: [Signature] DATE: 1/12/17
CIRCLE ONE: (OWNER) AGENT TENANT

E-MAIL ADDRESS

TELEPHONE NO. ()
CIRCLE ONE: (CELL) WORK HOME

011404

- Who reports water use? → Any water right owner or the designated water use correspondent (usually the tenant).
- When does water use reporting take place? → Begins January 1st and runs until March 1st each calendar year

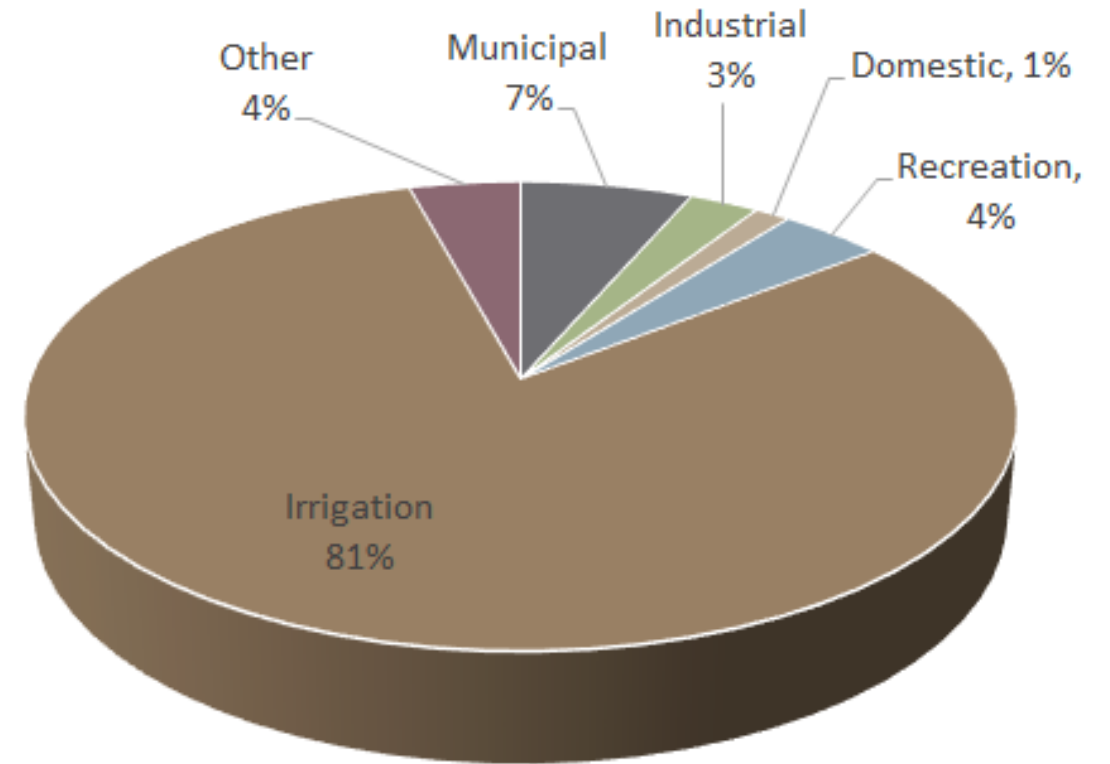
Water Use Reporting

Water Use details are used:

- To certify water rights
- In interstate compact administration
- For water banking
- In possible abandonment of water rights
- For compliance & enforcement actions

Who uses our data:

- Kansas Water Office
- KGS/USGS
- KRWA
- K-State Extension
- KS Dept. Of Revenue



Each year approx. 16,000 water use report forms are mailed for 32,500 active water rights.

Largest beneficial use in KS is irrigation.

Kansas Water Use Reporting System



Enter your PIN and Person ID

[Click here for PIN and Person ID Help](#)

[Trouble logging in with Internet Explorer?](#)

PIN:

Person ID:

[Log in](#)

Welcome to the Kansas Water Use Reporting System. Annual water use can be reported on-line to comply with the water use reporting requirements of the Kansas Water Appropriation Act. Owners of water rights in Kansas must report the previous years' use for all uses, except domestic use, by March 1 of each year. Filing a complete and accurate report will help protect your water right.

If you need help, please read the [Instructions](#) for completing the on-line report and [Terms and Definitions](#).

Failure to file a water use report by **March 1**, or filing an incomplete report, subjects the owner to a civil penalty not to exceed \$1,000 per water right permit. Failure to file a water use report by June 1 could result in a suspension of all water use until the report has been submitted. See [K.S.A. 82a-732](#).

Getting Started:

1. Login using the PIN and Person ID. These numbers are printed in the lower left hand corner on the annual water use report form mailed to you.

2. Once logged in, follow the instructions inside the pages displayed. Particularly take notice of the links at the top of each page which are helpful to navigate through the different parts of the report that may be required for specific use made of water.

Notes:

The Water Use Unit of the Division of Water Resources encourages you to use the new online filing system. You may read more about the Water Use Unit online at [Kansas Water Use Unit](#).

If you have a problem using the system, or you are a new owner and you don't have your ending meter reading from last year, please call the water use unit at **785-564-6638**.

If there has been an address change since last year's, report you may report the change by clicking the "Add New Address" link which shows up at the top of the page once you logged in.

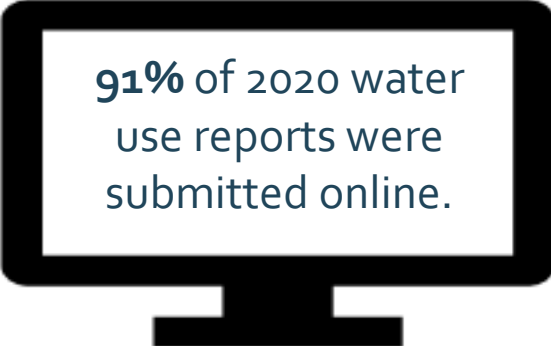
If you are an owner of a water right and desire someone else to file the report each year, please read the instructions to change the Water Use Correspondent. A form is included with the instructions. [Instructions for Correspondent Change Form](#).

If there has been an ownership change since last year's report, please [click here for more information](#).

For general questions, contact your local field office:

Online Water Use Reporting

- Initiated in 2013 to allow water users to report water usage online
- System reduces chance of errors & incorrect information
- Free to use, with real-time confirmation of report submittal



91% of 2020 water
use reports were
submitted online.

www.KSWaterUseReport.org

Applications, Fees, Violations, & Penalties

Overpumping Penalties

Category	Level A <24 Hours	Level B 24 – 72 Hours	Level C More than 72 Hours
No Penalty w/in 5 yrs	Written Notice of Non-Compliance	\$1000 per day and a reduction in quantity equal to 2X quantity overpumped (not to exceed one year suspension)	\$1000 per day and a reduction in quantity equal to 3X quantity overpumped (not to exceed one year suspension)
One Penalty w/in 5 yrs	\$1000 per day and a reduction in quantity equal to 2X quantity overpumped (not to exceed one year suspension)	\$1000 per day and a one year suspension	\$1000 per day and a three year suspension
Two Penalties w/in 5 yrs	\$1000 per day and a one year suspension	\$1000 per day and a three year suspension	\$1000 per day and a four year suspension
Three Penalties w/in 5 yrs	\$1000 per day and a three year suspension	\$1000 per day and a four year suspension	\$1000 per day and a five year suspension

Late Water Use Penalties

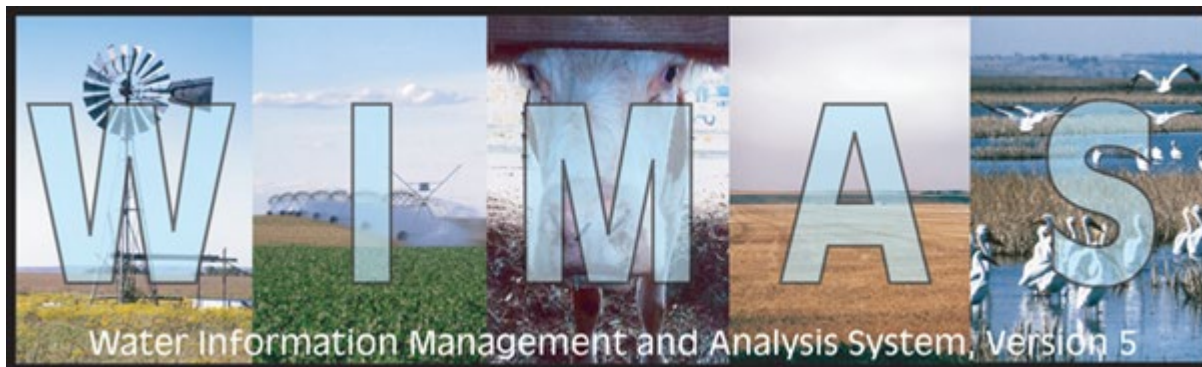
- Update to K.S.A 82a-732 – 2018 was the first year of increased fines for the 2017 reporting season. Civil and other penalties for failure to submit a water use report are:
 - If report is not received by March 1, owner is subject to **\$250 penalty** per file number
 - If report is not received by June 1, owner is subject to **\$1000 penalty** per file number

Civil Fines for Other Water Right Violations

	Violation of K.A.R. 5-14-10	Monetary Penalty	Maximum Number of Days Penalty Applied	Maximum Suspension of Water Use
	Lower-tier miscellaneous	\$500 per day	20	One year
	Failure to provide information	\$500 per day, for each day the violation exists	20	One year
	Unauthorized diversion or threat to divert	\$500 per day	20	One year
	Denial of access	\$1,000 per day	10	Three years
	Lack of water flowmeter	\$1,000 per day	10	Three years
	Noncompliance with a substantial order	\$1,000 per day	10	Five years
	Meter manipulation	\$1,000 per day	10	Five years
	Falsification	\$1,000 per instance of falsification	Not applicable	Five years
	Noncompliance with a special condition of a change application approval	\$1,000 per day	10	Two years

Image: Waste of water – lower tier – \$500 per day penalty & 1 year suspension of water right





<http://hercules.kgs.ku.edu/geohydro/wimas/>



Water Information Management and Analysis System (WIMAS) for the Web

Water Right Information represents conditions as of 12/31/2017.

[WIMAS 5 User Manual](#)

Public Land Survey System:			
Township: <input type="text" value="Any Township"/>	Range: <input type="text" value="Any Range"/>	Range Direction: <input type="text" value="E or W"/>	Section: <input type="text" value="Any Section"/>
Lat/Long Box (DD, NAD 27): North Latitude <input type="text"/> West Longitude <input type="text"/> East Longitude <input type="text"/> South Latitude <input type="text"/>		County Name: <input type="text" value="Any County"/> Allen Anderson Atchison Barber Barton Bourbon Brown	Water Right File Number <input type="text"/> Right Type: <input type="text"/> Vested County Code: <input type="text"/> Water Right Number: <input type="text"/> Water Right Qualifier: <input type="text"/>
Filter By Use Made of Water <input type="checkbox"/> Domestic <input type="checkbox"/> Municipal <input type="checkbox"/> Industrial <input type="checkbox"/> Recreation <input type="checkbox"/> Irrigation <input type="checkbox"/> Stockwater		Filter by Source of Water <input checked="" type="radio"/> No Filter <input type="radio"/> Ground <input type="radio"/> Surface	
Filter for Primary Water Rights <input checked="" type="checkbox"/> Appropriated and/or Vested		<input type="checkbox"/> Go directly to MAPPING page	
Your e-mail address (required) <input type="text"/>		<input type="button" value="Select Water Rights"/>	

WIMAS is a web based application that allows users to query, analyze, and map Kansas water right data. Data is retrieved daily from the Kansas Department of Agriculture's, Division of Water Resources Water Rights information System.

WIMAS version 5 for the Web was funded in part by the State Water Plan Fund of the Kansas Water Office and the Kansas GIS Policy Board.

Related Links

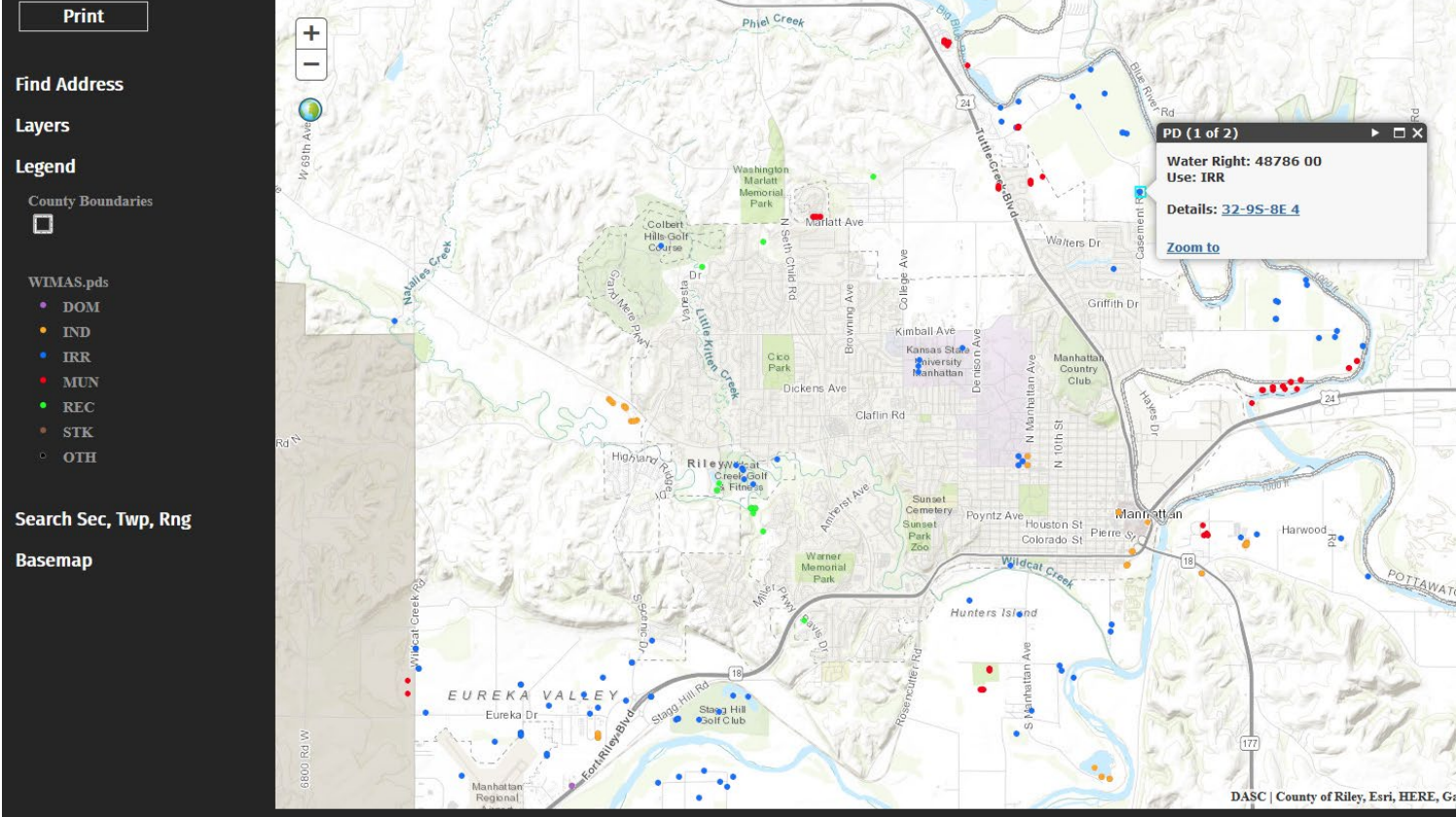
[KDA Division of Water Resources](#)--DWR administers 28 state laws, including the Kansas water appropriation act, and statutes concerning construction of dams, levees and other changes to streams within Kansas. DWR administers the state's four interstate river compacts and coordinates the national flood insurance program in Kansas.

[Kansas Water Office](#)-- The KWO is the State's water planning, policy, and coordination agency and develops the Kansas Water Plan.

[KDHE Bureau of Water](#)-- The Bureau of Water administers programs related to public water supplies, wastewater treatment systems, the disposal of sewage, and nonpoint sources of pollution. Programs are designed to provide safe drinking water, prevent water pollution, and assure compliance with state and federal laws and regulations such as the Clean Water Act and Safe Drinking Water Act.

[Groundwater Management Districts](#) -- Five groundwater management districts are responsible for regional planning and management of groundwater resources, collecting resource data and

WIMAS Mapper



- Online application that allows users to query, analyze & map Kansas Water Right Data
- Data updated daily from DWR database

WIMAS

Point of Diversion			
PD:	32-9S-8E 4	2 Water Right(s):	40024 - 00
WWC5 Links:		57362	WIZARD Link: 391321096332301
Water Right Details			
Source:	G	Right Type:	A
Total Acres Authorized:	121.3	Net Acres Authorized:	121.3
Use of Water Active:	Y		
Water Right Status:	NK	Place(s) of Use:	31-9S-8E SE SE (active)
Total Acres:	15.7	Net Acres:	15.7
Priority Date:	06/28/1990	Action Trail:	06/28/1990- PENDING INITIAL REVIEW
Point of Diversion Details			
PD Active:	Y	Feet North:	1471
Feet West:	5375	Qualifiers:	
County:	RILEY		
GMD Num:		Number of Wells:	1
Subbasin:	BIG BLUE RIVER		
Stream Number:			
Special Use Area(s):			
Comment:	SW NW SW		
Authorized Quantity & Rate			
Quantity Stored By:	Water Right	Authorized Quantity (AF):	90
Net Quantity (AF):	90		
Rate Stored By:	Water Right	Authorized Rate (GPM):	750
Net Rate (GPM):	750		
Reported Water Use			
Graph Water Use History			
Water Use Year(s):	2017	Total Water Used (AF):	37.56
Acres Irrigated:	126		
Water Use Reported on Right Num:		Reel Number:	1
Blip Number:	736		
Metered Quantity:	12237700	Meter Unit:	1
Depth to Water:			
Depth of Well:			
Beginning Meter Reading:	6412800	Ending Meter Reading:	18650500
System Type:	4	Hours Pumped:	
Pump Rate:	700	Date of Measurement:	
Date Report Received:	01/12/2018	Chemigation Indicator:	N
Water Use Code:	M	Crop Code:	20
Current Water Use Correspondent(s):	PAUL B & MARY BETH IRVINE		
Print ASCII Report			

Meters

- Water flowmeters required by KDA-DWR must be from the Certified Water Flowmeter list
- Meters must be installed according to manufacturer instructions and with minimum 5 pipe diameters upstream and 2 downstream
 - Multijet, full-bore electromagnetic & positive displacement meters are exempt from spacing requirements
- McCrometer propeller meters must be installed in approved chamber with flow straightening vanes



Meter spacing – the good



Meter spacing – the bad



Out of compliance – does not meet upstream spacing & spigot location

Meter spacing – the ugly

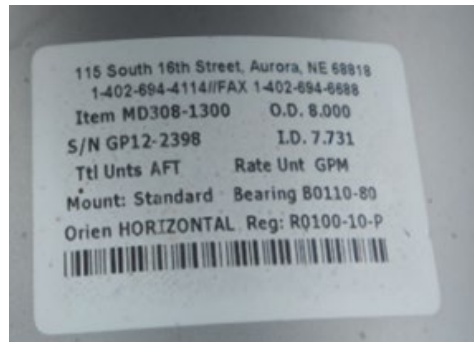


Out of compliance – does not meet upstream spacing

02/21/2018 12:54

Meters

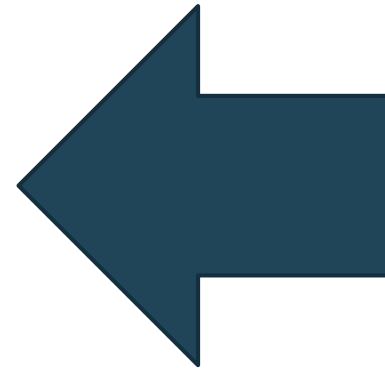
- Meters must have sufficient register capacity to not roll over more than once per year
- They must be maintained in satisfactory operating condition
- Must have appropriate seals and labels. Seals can only be broken by an authorized representative of the manufacturer
- One must submit a repair/replacement form when meter is repaired or replaced.





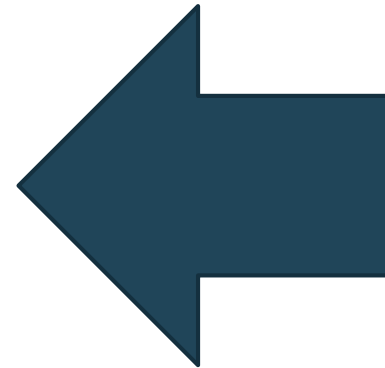
Meter Issues

Unreadable
or
Broken



Meter Seal Issues

Missing
or
Broken



A wide-angle photograph of a large body of water, possibly a lake or a wide river. In the foreground, there is a grassy shoreline with some low-lying vegetation. The water is dark and has small ripples. In the middle ground, there are several small, grassy islands or peninsulas. In the far distance, a line of trees is visible on the horizon under a cloudy sky.

QUESTIONS

Visit our website: <http://Agriculture.KS.gov/Divisions-Programs/DWR>