

- state Kansas: variability in hydrologic conditions across the
- ightledap Average precipitation ranges from 16 inches in western Kansas to 40 inches in eastern Kansas
- Droughts can be persistent
- Western Kansas

 ➤ Primarily relies on
- 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

House Agriculture & Natural Resources Committee Date /-22-20/3
Attachment #

Cansas Mater Appropriation Act

- All water dedicated to use of the people of Kansas
- "First in time is first in right" priority system Right to use water is based on
- Limits rights to reasonable needs
- desirable streamflows beneficial use and to protect minimum Allows a limited resource to be allocated for
- Protects investments, property rights and the resource

Kansas Water Appropriation Act

- Chief Engineer is charged with administering the
- Single priority system for ground and surface
- A "water right" is not to the ownership of water, water for beneficial purposes with certain but it is a real property right to divert and use limitations
- appropriations, although conversion of water No type of use is given preference in rights tends to move toward higher valued uses

TO TO CE OS

- minimum desirable stream flow may be curtailed to satisfy senior rights and During periods of shortage, junior water rights
- Releases from storage may be protected
- and Local Enhanced Management Areas (LEMAs) Statutes provide additional comprehensive tools Intensive Groundwater use Control Areas (IGUCAs) to deal with long-term water problems, e.g.

Trends in water management

- Closing of many areas to new water rights
- New rights in other areas limited to safe yield
- Increased use of metering
- Increased water conservation
- closed/restricted areas accommodate new and different uses in Increasing use of changes in water rights to



KANSAS DEPARTMENT OF AGRICULTURE

Dale A. Rodman, Secretary of Agriculture

DIVISION OF WATER RESOURCESDavid W. Barfield, Chief Engineer

Kansas Water Appropriation Act K.S.A. 82a-701 et seq (Selected Statutes)

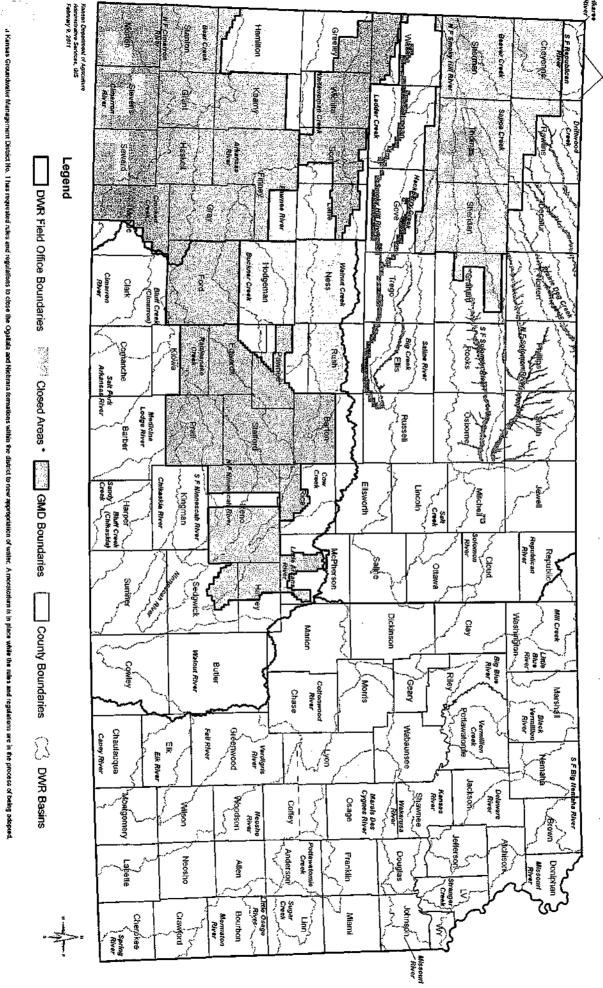
K.S.A. 82a-702. Dedication of use of water. All water within the state of Kansas is hereby dedicated to the use of the people of the state, subject to the control and regulation of the state in the manner herein prescribed. (History: L. 1945, ch. 395, § 2; June 28.)

K.S.A. 82a-711. Permits to appropriate water; standards for approval of use; review of action on application. (a) If a proposed use neither impairs a use under an existing water right nor prejudicially and unreasonably affects the public interest, the chief engineer shall approve all applications for such use made in good faith in proper form which contemplate the utilization of water for beneficial purpose, within reasonable limitations except that the chief engineer shall not approve any application submitted for the proposed use of fresh water in any case where other waters are available for such proposed use and the use thereof is technologically and economically feasible. Otherwise, the chief engineer shall make an order rejecting such application or requiring its modification to conform to the public interest to the end that the highest public benefit and maximum economical development may result from the use of such water.

- (b) In ascertaining whether a proposed use will prejudicially and unreasonably affect the public interest, the chief engineer shall take into consideration:
 - (1) Established minimum desirable streamflow requirements;
 - (2) the area, safe yield and recharge rate of the appropriate water supply;
 - (3) the priority of existing claims of all persons to use the water of the appropriate water supply;
 - (4) the amount of each claim to use water from the appropriate water supply; and
 - (5) all other matters pertaining to such question.
- (c) With regard to whether a proposed use will impair a use under an existing water right, impairment shall include the unreasonable raising or lowering of the static water level or the unreasonable increase or decrease of the streamflow or the unreasonable deterioration of the water quality at the water user's point of diversion beyond a reasonable economic limit. Any person aggrieved by any order or decision by the chief engineer relating to that person's application for a permit to appropriate water may petition for review thereof in accordance with the provisions of K.S.A. 2005 Supp. 82a-1901 and amendments thereto. (History: L. 1945, ch. 13 390, § 11; L. 1957, ch. 539, § 16; L. 1977, ch. 356, § 6; L. 1980, ch. 332, § 3; L. 1986, ch. 392, § 3; L. 1991, ch. 292, § 3; L. 1999, ch. 130, § 5; July 1.)

- <u>K.A.R. 5-4-4.</u> Well spacing. (a) The spacing between wells shall be sufficient to prevent direct impairment between wells located in a common source of supply or hydraulically connected sources of supply and to protect the public interest. Except as set forth in subsection (b), the following guidelines shall be used to determine the spacing required between wells permitted by the chief engineer in a common source of supply, unless it is determined by the chief engineer in any specific instance that the spacing guidelines set forth in this regulation are insufficient to prevent direct impairment or are not necessary to prevent direct impairment.
- (b) Whenever an applicant proposes to divert water from a source of supply in a location where there is a significant hydraulic connection between the proposed source of supply and another source or sources of supply, the chief engineer shall determine the spacing necessary to prevent impairment and to protect the public interest on a case by case basis.
- (c) Except as set forth in subsection (e) below, each well that is described in an application for a permit to appropriate water for beneficial use or for a term permit, excluding any domestic or temporary well, shall meet the minimum spacing requirements set out in paragraphs (1) and (2) below.
 - (1) The minimum distance from the well which is the subject of the application to all other senior authorized non-domestic and non-temporary wells in the same aquifer or a hydraulically connected aquifer shall be:
 - (A) four miles between wells whose common source of supply is the confined Dakota aquifer system;
 - (B) one-half mile between wells whose common source of supply is the unconfined Dakota aquifer system; and
 - (C) 1320 feet for wells whose common source of supply is any other aquifer.
 - (2) In addition to meeting the minimum spacing requirements of paragraph (1) above, the minimum distance from the well which is the subject of the application to all domestic wells, except where the domestic well owner has given the applicant written permission to reduce the spacing interval, shall be:
 - (A) one-half mile for wells whose common source of supply is the confined Dakota aquifer system;
 - (B) 1320 feet for wells whose common source of supply is the unconfined Dakota aquifer system; and
 - (C) 660 feet for wells whose common source of supply is any other aquifer.
- (d) Except as provided in subsection (e), the location of a well or wells on an application to change the point of diversion under an existing water right shall either:
 - (1) meet the spacing requirements in paragraphs (c)(1) and (c)(2) above; or
 - (2) not decrease the distance to other wells or authorized well locations by more than 300 feet.
- (e) This regulation shall not apply if the chief engineer has adopted another regulation, or issued an order pursuant to K.S.A. 82a-1036 et seq., specifying a different well spacing for the source of supply in which the proposed point of diversion is located.
- (f) In the case of a battery of wells, the distance shall be measured from the geographic center of the points of diversion comprising the battery.
- (g) If the proposed point of diversion does not meet the well spacing requirements in this regulation, the applicant shall be notified by the chief engineer in writing prior to dismissal that the requirements have not been met. The applicant shall then have 15 days to request time in which to submit additional information. Upon written request, the applicant shall be given a specified reasonable amount of time by the chief engineer to submit an engineering or similar type of hydrologic analysis to show that the spacing can be decreased without impairing existing rights or prejudicially and unreasonably affecting the public interest. The burden shall be on the applicant to make such a showing to the satisfaction of the chief engineer. (Authorized by K.S.A. 82a-706a; implementing K.S.A. 1993 Supp. 82a-711; effective May 31, 1994.)

Groundwater Areas Closed by Rule or Order



Safe Yield Report Sheet

Proposed Water Right Application

Point of Diversion in SWSWNENW 01-228-08W

Analysis Results

The selected PD is in an area to new appropriations.

The safe yield, based on the variables listed below is 1,156.04 AF.

Total prior appropriation in the circle is 2,112.89 AF.

Total quantity of water available for appropriation is 0.00 AF.

Safe Yield Variables

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

Potential annual recharge of the area is estimated to be 2.3 inches.

The percent of recharge available for appropriation is 75%.

right and possible stream nodes for GMD #2. Authorized Quantity values are as of 18-JAN-2013 and are based on Appropriated and Vested ground water Domestic, Term and Temporary water rights have been excluded.

There are 16 water right(s) and 27 point(s) of diversion within the circle.

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Miles

This map was created by KAK/DWR on 1/18/2013

Index Map

NEW APPLICATION PROCESSING IN RENO COUNTY

(Beginning with Priority Date of June 2011)

Big Bend GMD No. 5

GMD 5 is closed to new appropriations of water, so no new applications have been approved within GMD No. 5 boundaries.

Loda Township Area

This is a limited area located between GMD 5 and GMD 2 boundaries. There are several South Central Kansas Designated Unit Areas located within the Loda Township area. Processing new applications located within a South Central Kansas Designated Unit Areas, is a 2 step process: First the unit area must have water available (e.g. SNI-27 is currently closed to new appropriations), then a two-mile circle safe yield must also show that water is available.

There have been several new applications filed in this general area starting in the Summer and Fall of 2011 (see attached summary sheet). Six were approved, three are still pending, and one was dismissed. Of the pending applications, there is only 52.8 acre-feet left in the designated unit area, so the last two are likely to be denied and dismissed.

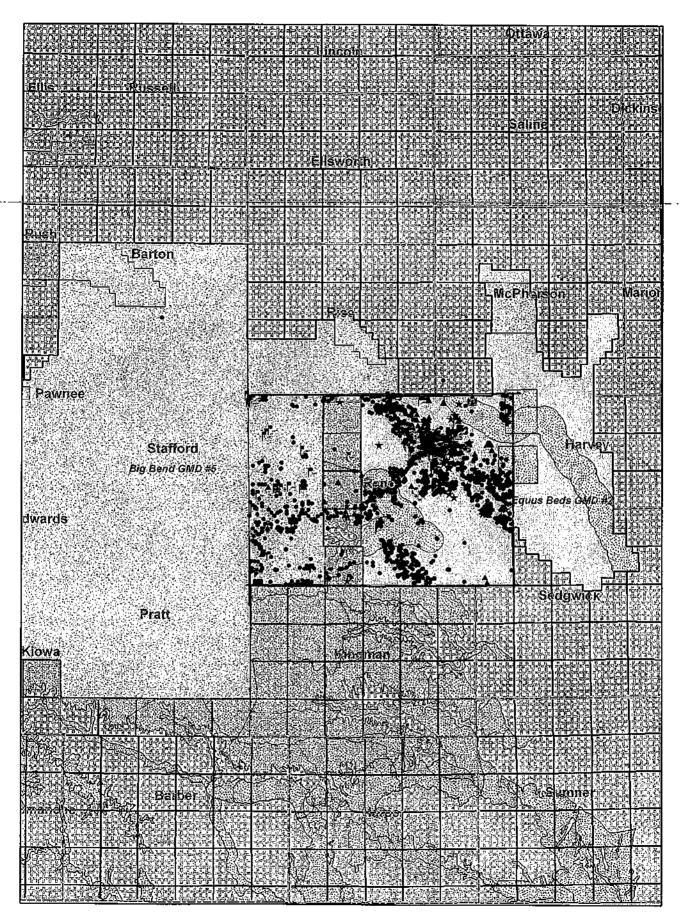
Reno County

There is only a limited area of Reno County located outside of GMD boundaries. Starting with a priority date of June 1, 2011, as of January 14, 2013, we have approved 28 applications, including the six listed above within the Loda Township area (see attached summary sheet). The majority of the files are located within GMD 2. There are still 40 pending applications in Reno County.

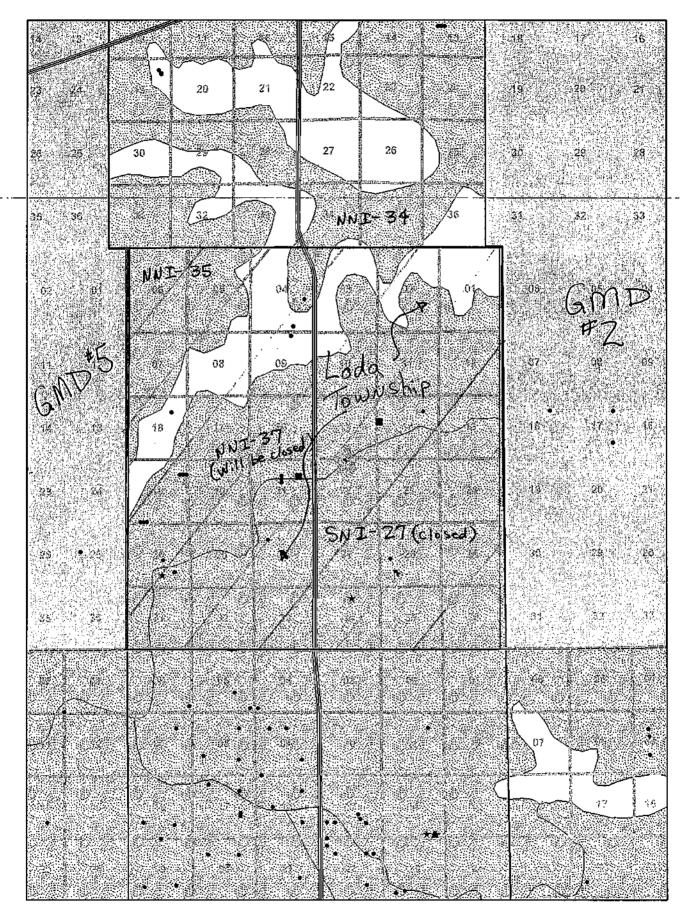
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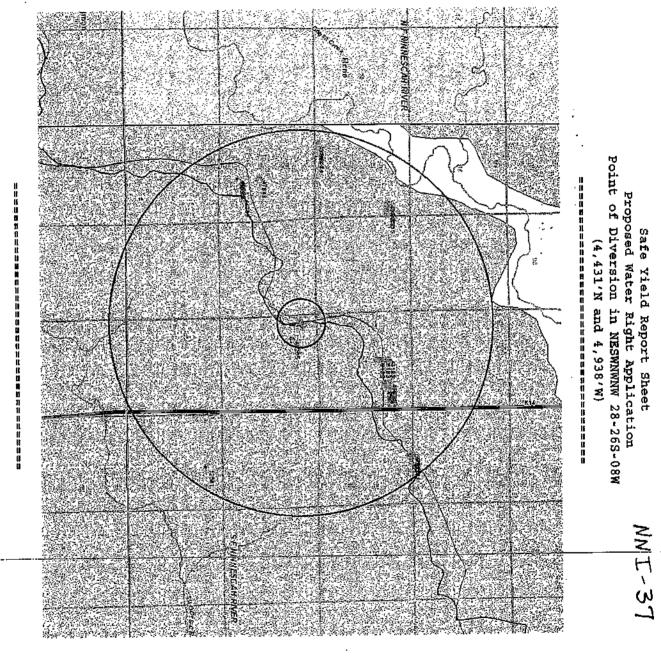
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NN I-37

The selected PD is in an area to new appropriations. The safe yield, based on the variables listed below is 1,005.25 AF. Total prior appropriation in the circle is 1,128.80 AF. $\sim 264.6 \approx 864.2$

Safe Yield Variables

Total quantity of water available for appropriation is 0.00 AF. 141.05 - Ava; Lable

The percent of recharge available for appropriation is 75%. Potential annual recharge of the area is estimated to be 2 inches. The area used for the analysis is set at 8,042 acres.

Authorized Quantity values are as of 09-,TAN-2013 and

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Consequences of Overpumping

Conserving water resources in Kansas is critical to the state's agricultural community. The Kansas Department of Agriculture has worked with the Kansas legislature and all water stakeholders to improve flexility of water law to promote locally-driven, individually-managed water regulations.

Kansas water rights have established legal limits for the quantity of water authorized, diversion rate, place of use, type of use, and other conditions and limitations. Using more water than is authorized is called overpumping. Owners should be aware of the legal limits of their water rights because overpumping violations can result in costly penalties and potential temporary or permanent loss of the water

Starting with the 2013 calendar year KDA will apply the following revised progressive penalties when an individual diverts more water than is authorized by his or her water right or permit to appropriate water.

right.

- First offense: Notice of Non-compliance (NONC);
- Second offense:
 Monetary fine of \$1,000
 and a reduction in
 authorized quantity for the
 - authorized quantity for the following irrigation season by two times the amount overpumped;
- Third offense: Monetary fine of \$1000 per day of overpumping (capped at \$10,000) and a one-year suspension; and
- Fourth offense: Water right revocation. The water could become available for appropriation to someone else if located in an area not closed to new applications.

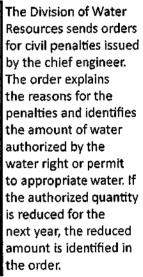
There may be exceptions to the progression listed above. For example, if overpumping is flagrant, the agency may proceed to a stricter penalty without waiting for repeat offenses.

Sanction documents will be recorded with the local county register of deeds to ensure individuals who purchase land are aware of any water pumping violations.

Once annually, the Kansas Department of Agriculture will publish a list of all individuals in Kansas who violated their water right by overpumping. This list will be distributed to media statewide.

Past violations may be expunged from the department's recrods in the following schedule:

- Five years from the date of the NONC if there are no violations in the 5 years after NONC.
- Ten years from the date of the NONC if there is a violation after NONC in the 5 year period
- Fifteen years from the date of the NONC if there are two violations after the NONC within the 10 year period.





KDA allows water users the flexibility to determine how they will comply with their reduced allocations in a manner that creates the least impact on their operations. For example, an irrigator who has received such a penalty may have to plant a crop that requires less water or reduce their acres planted to comply with the reduction in their authorized quantity.

It is very important for individuals who have been penalized for overpumping to not repeat the violation, as it leads to more severe penalties, could negatively affect the value of the water right and could eventually lead to a temporary or permanent loss of the water right or permit.