

## KDA-DWR Report

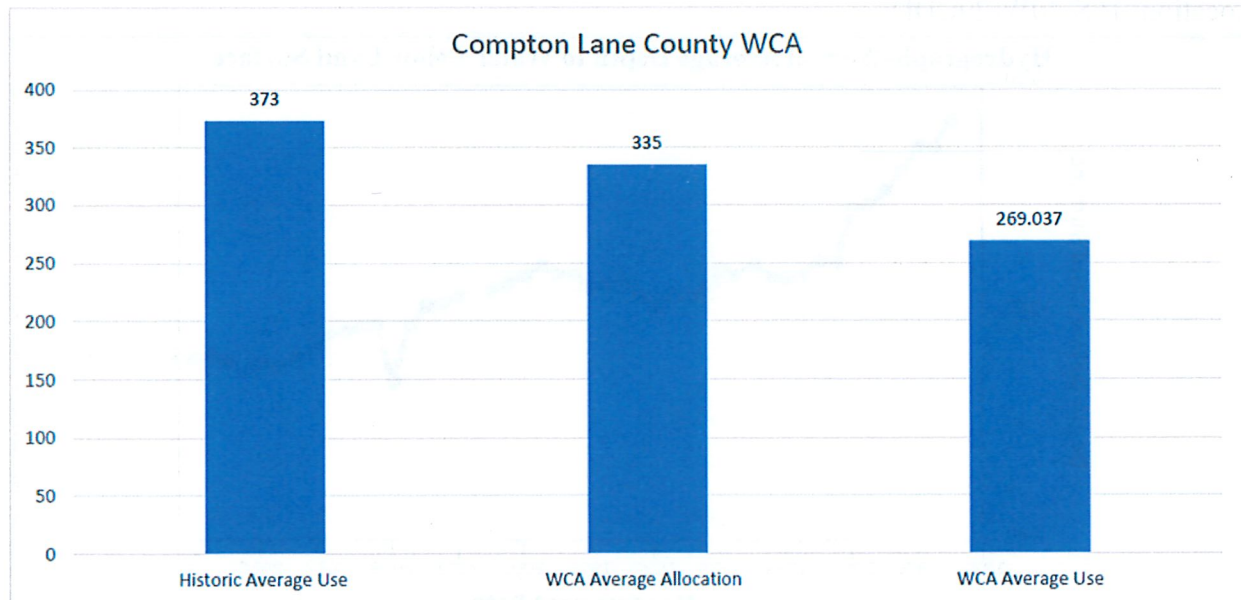
### Official Review of a Water Conservation Area (WCA) Compton: Lane County Farm WCA; Lane County, KS January 2017 through December 2031

***Review of Total Water Use of Water Rights Enrolled:***

During the term of this WCA, water use was limited to 1675 acre-feet during the first 5-year period. The total water use reported annually, under the referenced water rights, during the term of this WCA are as follows:

2017 Use (AF)	2018 Use (AF)	2019 Use (AF)	2020 Use (AF)	2021 Use (AF)	Total WCA Use (AF)	Unused WCA Allocation (AF)	Total WCA Limit (AF)
262.238	176.663	289.1	354.8	262.384	1345.19	329.815	1675

The total use during this first 5-year WCA period was 1345.19 acre-feet. The total amount of unused WCA allocation for this WCA period was 329.815 acre-feet. According to the WCA management plan, a request of up to 25% of any unused water, of the immediately preceding 5-year WCA allocation, may be rolled over and added to the allocation for the next 5-year period. This amount is 329.85 acre-feet.



***Review of Corrective Control Provisions:***

The proposed term of the WCA is three 5-year periods, totaling 15-years, with an evaluation at the end of each 5-year period. Below are the control provisions:

- All water rights combined shall be limited to no more than 576 acre feet annually.
- A term permit may be proposed to allow an individual well to exceed its annual allocation under the base water right if the total combined quantity of 576 acre-feet annually is not exceeded by all wells.
  - A term permit was not requested or needed in the first 5-years.

No other corrective controls were exceeded.

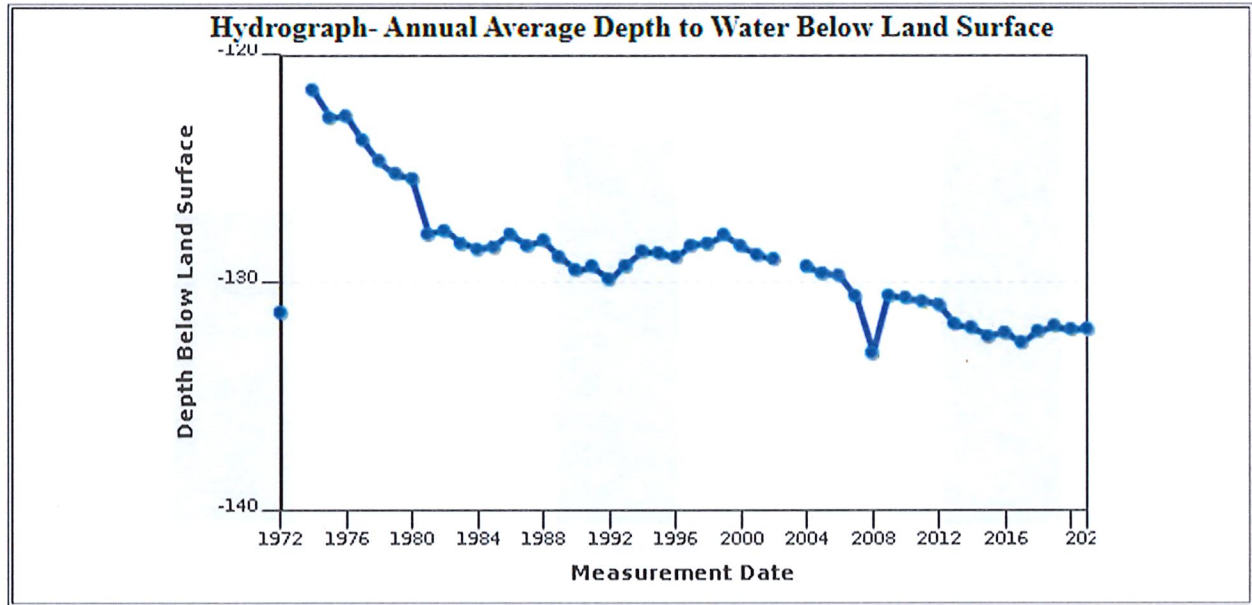
***Review of Compliance Monitoring and Enforcement:***

During the period of this WCA, there were no compliance or enforcement issues relating to the water right and the corrective controls of the management plan.

***Review of Water Level Changes:***

Below are the nearby observation wells documented in the management plan. Note that the measurements were taken in the early calendar year months. Outliers measured outside of this time range are labeled with the month they were measured.

Location: 16S-30W-29CDD



***Review of Economic Impacts:***

No official economic reports have been published at this time but after speaking with the Kansas Water Office regarding the Water Technology Farm that exists on the WCA geographic boundaries, that is also associated with this WCA, it has been stated that reducing water use does save money. The owner/operator of the Compton Lane County WCA, Steve Compton, stated that by making the appropriated measures to increase irrigation efficiency this ultimately reduced the need to pump more water, thereby reducing pumping costs. As well, other methods to increase crop yield required less inputs on the crops overall and have saved additional costs by the end of the season. In conclusion, this WCA in conjunction with a Water Technology Farm has provided same average yield with the last five years with less water, thereby allowing for more profit after harvest.

***Review of Public Interest:***

The Compton Lane County Farm WCA has had no appreciable negative impacts on the public interest. Conversely, it can be stated that the conservation of water along with extending the useable life of the Ogallala Aquifer in that regional area, on the ground under the Compton Lane County Farm WCA has positively impacted the public interest area. Along with the existing Water Technology Farm, concentrating on technology to conserve water, Water Technology Farms have grown statewide to approximately 18 farms by the end of calendar year 2021.

***Summary of Review by KDA-DWR:***

It is determined that the Compton Lane County WCA has met its goals throughout the designated first term. Over the course of the WCA the owner conserved an additional 19% of its WCA goal the first 5-years. The owner also met all requirements and had no enforcement issues with KDA-DWR. In summary, the WCA should continue to operate under their existing corrective controls for the next 5-years and have the carry-over of unused water documented for potential use if needed.

