Status of Groundwater Levels and Storage Volume in the Equus Beds Aquifer near Wichita, Kansas, January 2011

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**Abstract**


Hydrogeology of the Study Area

Methods

Aquifer Layers

Groundwater Levels and Storage Volume

Water-level Change

Storage Volume Change

Storage Volume Change, January 2011

References

**Introduction**

Water and soil loss can be a significant problem on the Great Plains. As the area is dominated by agriculture, the need for irrigation often leads to the overuse of ground water. This process is most evident in the High Plains Aquifer of Texas, Oklahoma, and Kansas, which has been shown to be experiencing increased demand, increased drawdown, and depleted storage. To some extent, the Overburden Aquifer is experiencing similar problems. The Agua Fria Layer of the Overburden Aquifer in the southwestern part of Harvey County and the northern part of Sedgwick County was developed to supply water to the city of Wichita and for irrigation in this agriculturally dominated part of south-central Kansas.

Historic or other monitoring well

Water-Level Altitudes

Water-Level Changes, August 1940 to January 2010

**Water-Level Changes, August 1940 to January 2010**

The change in storage volume from July 2010 to January 2011 was a decrease of 10,300 acre-ft. The change in storage volume from January 1993 to January 2011 was an increase of 4,000 acre-ft. Since 1993, the aquifer has been experiencing higher water levels and a partial recovery. The aquifer is currently experiencing higher water levels and a partial recovery. The aquifer is currently experiencing higher water levels and a partial recovery.

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**References**