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Vulnerability assessment of water resources - Translating a theoretical concept to an operational framework using systems thinking approach in a changing climate: Case study in Ogallala Aquifer

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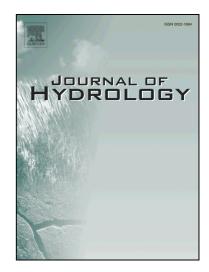
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ACCEPTED MANUSCRIPT

Vulnerability assessment of water resources Translating a theoretical concept to an operational framework using systems thinking approach in a changing climate: Case study in Ogallala Aquifer

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Keywords: IPCC; Adaptive capacity-Exposure-Sensitivity; DPSIR; Driver-Pressure-State-Impact-Response; High Plains Aquifer; Kansas; VISTA

Highlights:

- 1. Translate theoretical concept (vulnerability of water resources) to operational in three stages
- 2. The novel systems thinking approaches used in the translation
- 3. In one of the stages, WR-VISTA a novel model is developed
- 4. Application of WR-VISTA using 26 indicators selected for Kansas
- 5. The study region overlies portions of the Ogallala Aquifer

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