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Aavudai Anandhi, Narayanan Kannan

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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

Aavudai Anandhi^{1,2}, Narayanan Kannan³

¹Biological Systems Engineering program, Florida Agricultural and Mechanical University,
Tallahassee, FL, 32304

²Center for Water Quality, College of Agriculture and Food Sciences, Florida Agricultural
and Mechanical University, Tallahassee, FL, 32304

³Texas Institute for Applied Environmental Research, Tarleton State University,
Stephenville, TX, 76401

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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