Sources of Irrigation Ontology

# Terminology and concepts of Irrigation

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# **Introduction**

This document enlists sources, such as websites, books, research papers and journals, and describes the terminologies and concepts derived from those sources. The main source that was used most extensively was “The USGS Water Science School”.

# **Background of Irrigation ontology**

Irrigation ontology is the specification of irrigation domain, designed according to semantic web standards. It contains major concepts of irrigation and some related concepts. The aim is to support a search engine app for the data of data acquired from USGS site. That data is then injected into this ontology in the form of triples. The ontology is formed through extracting concepts and relationships from various sources, including USGS website.

# **Major concepts**

1. Water
   1. Surface Water
   2. Ground Water
2. Water Property
3. Water Quality
4. Water Cycle
5. Water Use
   1. Irrigation
6. Weather
7. Atmosphere
8. Land Mass
9. Site
10. Body of Water
11. Measurement