

Geographic Information Systems

## GIS Download Page

### DWR Data Disclaimer

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- **Active Land Subsidence 2010** This shapefile provides the spatial extent of the Arizona land subsidence features as of 2010. The Arizona Department of Water Resources Geophysics/Surveying Unit has been collecting and processing Interferometric Synthetic Aperture Radar (InSAR) data since 2005 to monitor land subsidence across the State of Arizona. Statewide subsidence features were identified using the Envisat Satellite and are updated to 2010.
- **ADWR Groundwater Basins** The data provide base information for use in GIS systems to aid in assessment for a variety of planning and analysis purposes and to provide a geographic view with corresponding data. These data do not represent a legal record. According to ARS 45-402(13) "Groundwater basin" means an area which, as nearly as known facts permit as determined by the director pursuant to this chapter, may be designated so as to enclose a relatively hydrologically distinct body or related bodies of groundwater, which shall be described horizontally by surface description. ADWR Groundwater Basins include the five Active Management Areas (AMAs).
- **ADWR Groundwater Subbasins** The data provide base information for use in GIS systems to aid in assessment for a variety of planning and analysis purposes and to provide a geographic view with corresponding data. These data do not represent a legal record. According to ARS 45-402(34) "Subbasin" means an area which, as nearly as known facts permit as determined by the

director pursuant to this chapter, may be designated so as to enclose a relatively hydrologically distinct body of groundwater within a groundwater basin, which shall be described horizontally by surface description.

- **Buckeye Water Logged Area** This shapefile is the polygon depicting the Buckeye waterlogged area. As much as 30,000 acre-feet of groundwater per year is pumped by Buckeye Irrigation Company from dewatering wells located in the Buckeye Waterlogged Area to allow crops to be grown. Without this pumping, the groundwater table would rise to within a few feet of the ground surface, fields would not drain, and traditional crops could not be grown. Water pumped from the dewatering wells is currently discharged and not used for beneficial purposes because it is high in total dissolved solid (TDS) concentrations and unsuitable for potable uses or landscape irrigation. The treatment of high TDS water wastes about 25% of the water and produces a brine concentrate which must be disposed of. Future technological advances are expected to provide a cost effective method to reduce TDS while also reducing water waste and brine disposal challenges (one brine disposal option could include irrigation of a variety of turfgrass which can tolerate TDS concentrations up to 15,000 parts per million). If the high TDS dewatering water can be treated at a reasonable cost it could provide an additional water source to reduce the use of groundwater and CAP water. The Town is committed to working with Buckeye Irrigation Company to explore how the dewatering water can be acquired by the Town and utilized as a new source of water to reduce the use of groundwater and CAP water.
- **Groundwater Site Inventory Data Download** ([click link to download zip file](#)) The Groundwater Site Inventory (GWSI) database is ADWR's main repository for state-wide groundwater data. The GWSI consists of field-verified data regarding wells and springs collected by personnel from Hydrology Division's Basic Data Section, the U.S. Geological Survey, and other co-operating agencies. The information in GWSI is constantly being updated by ongoing field investigations and through a state-wide network of water level and water quality monitoring sites. The latitude and longitude values are in Geographic NAD 27. The Feature class is projected to NAD 83 UTM ZONE 12N. There are 35 additional tables associated with the GWSI Shapefile. These tables were last updated 1/28/11. Please see the README file contained in this .zip file for further information. If you are interested in using the GWSI mapping tool, please see the [ADWR GWSI Web Application](#).
- **Irrigation Districts** Irrigation districts are municipal corporations with broad powers and purposes. Districts can purchase or acquire water rights, own or sell property and real estate, construct facilities, generate electricity, appropriate water for irrigation and power generation, tax and charge for services, appropriate money, and provide the district with water, electricity, and other public conveniences and necessities generally provided by municipalities.
- **Irrigation Grandfathered Rights** An Irrigation Grandfathered Right (IGFR) is a right to irrigate land in an active management area that was legally irrigated any time between 1975 and 1979, based on crops historically grown, for which a certificate has been obtained, with a few exceptions for substitution or transfer of acres under specified circumstances. The process for determining acres entitled to and for calculating a groundwater allocation is specified in A.R.S. § 45-465.

Also included in this zip file are Irrigation Non-Expansion Areas. An Irrigation Non-expansion Area (INA) is a geographical area that has been designated as having insufficient groundwater to provide a reasonably safe supply for the irrigation of the cultivated lands at the current rate of withdrawal. Within INAs, new agricultural use of land occurring on land that was not irrigated in the five years preceding the designation of the INA is prohibited with a few exceptions for substitution or transfer of acres under specified circumstances.
- **Municipal Service Areas** According to ARS 45-561(10) "Municipal provider" means a city, town, private water company or irrigation district that supplies water for non-irrigation use. Municipal water providers in the Arizona Department of Water Resources (ADWR) database exist only within Active Management Areas (AMAs). The boundaries depict the area that a Provider is actually serving municipal water. This is a compilation of municipal water service providers from 1994 to 2008.
- **Recharge Underground Storage Facility** Approximate point locations for all permitted USFs in the state of Arizona. This feature class is currently out of date, but we are intending to update by the end of June 2010. The feature class was last updated 10/29/2009.

- **Southside Protection Zone** ARS 45-2602. Establishment of southside protection zones; reporting requirements - for further explanation see <http://www.azleg.gov/ars/45/02602.htm>
- **Statement of Claimant Location Active** This feature class is intended to provide the most recent version of locations of POU's and POD's from the ADWR.SOC oracle database. The data was pulled from ADWR.SOC on 2/05/09. Please note that this feature class does not contain all the SOC data in ADWR.SOC; it only contains those that had Cadastral information that matched with the WELLS.cadastral feature class in this SDE. Thus it is only the best representation for mapping purposes only.
- **Surface Watersheds Adjudication** Adjudications in Arizona are based on surface watersheds defined by the Adjudication Court, not to be confused with watersheds defined by ADWR (see Surface Watershed ADWR). This feature class displays the breakdown of adjudication watersheds. The table indicates in which river system each watershed is found and the Adjudication status of the watershed. The data provide base information for use in GIS systems to aid in assessment for a variety of planning and analysis purposes and to provide a geographic view with corresponding data. These data do not represent a legal record.
- **Surface Watersheds ADWR** This statewide dataset consists of ADWR's watersheds. A watershed is defined as an elevation or divide separating the catchment area, or drainage basin, of one river system or group of river systems from another system or group of systems. The term is synonymous with drainage basin.
- **Surface Water Filings ADWR** This statewide dataset consists of a grouping of Hydrologic Unit Codes. This feature class is used for Surface Water Filings.
- **Surface Water Sampling Sites** This data set is a general reference for the location of sites used to sample surface water in Arizona. The intention with which the data set was developed is for general reference only. It is representative only presenting a single point in time for the topic surface water sampling sites. It is not the final or authoritative legal documentation for surface water sampling sites.
- **Surface Water Filings Active** Applications for Permit to Appropriate Public Water of the State of Arizona or to Construct a Reservoir (33's, 4A's, 3R's). Claims of Water Right for a Stockpond and Application for Certification (38's). Statements of Claim of Right to Use Public Waters of the State of Arizona (36's). Shows applications for Permit to Construct a Reservoir (33's, 4A's, 3R's), a Stockpond (38's), or a Claim of Right to Use Public Waters of the State of Arizona (36's). Public Water Code  
Early in its history, Arizona adopted the doctrine of prior appropriation to govern the use of surface water. This doctrine is based on the tenet of "first in time, first in right" which means that the person who first puts the water to a beneficial use acquires a right that is better than later appropriators of the water. Prior to June 12, 1919, a person could acquire a surface water right simply by applying the water to a beneficial use and posting a notice of the appropriation at the point of diversion. On June 12, 1919, the Arizona surface water code was enacted. Now known as the Public Water Code, this law provides that a person must apply for and obtain a permit in order to appropriate surface water.
- **Surface Water Filings Instream** An instream flow right is a surface water right that remains in-situ or "in-stream", is not physically diverted or consumptively used, and is for maintaining the flow of water necessary to preserve wildlife, including fish and/or recreation. A person applies for a permit to appropriate public water for an instream flow use by completing an application form, "Application for Permit to Appropriate Public Water of the State of Arizona Instream Flow Maintenance" and submitting it to the Arizona Department of Water Resources (Department) with the proper filing fee. These applications are assigned a number with the prefix "33".
- **Surface Water Locations Active** This feature class is intended to provide the most recent version of locations of POU's and POD's from the ADWR.SWR oracle database. The data was pulled from ADWR.SWR on 2/05/09. Please note that this feature class does not contain all the SWR data in ADWR.SWR; it only contains those that had Cadastral information that matched with the WELLS.cadastral feature class in this SDE. Thus it is only the best representation for mapping purposes only.
- **Wells 55 Registry** - The 'Wells 55 Registry' contains all wells registered in the state. The database was created in 1980 to store registration information submitted by well owners and drillers. The Wells 55 Registry database contains different well types - Notices of Intent to Drill (NOI) (55-500000 and

55-200000, series), Electronic NOI (eNOI) (55-900000 series), registrations of existing wells (55-600000 and 55-800000 series), discovered unregistered wells (55-700000 series), and existing wells that are registered to be abandoned (55-400000 series). In other words, the database contains NOIs to drill, modify, abandon, or deepen, registrations, driller reports, completion reports, change of well information, change of ownership, notice of well capping, and abandonment completion reports. You can also access our online GIS application at the [Well Registry Web](#).

- For additional GIS Feature Classes pertaining to the State of Arizona, please visit the [Arizona Land Resource Information System](#)

GIS Download Page - Windows Internet Explorer

http://www.azwater.gov/azdwr/GIS/

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Laguna Fire Continues B... GIS Download Page

Watersheds defined by the Adjudication Court, not to be confused with watersheds defined by ADWR (see Surface Watershed ADWR). This feature class displays the breakdown of adjudication watersheds. The table indicates in which river system each watershed is found and the Adjudication status of the watershed. The data provide base information for use in GIS systems to aid in assessment for a variety of planning and analysis purposes and to provide a geographic view with corresponding data. These data do not represent a legal record.

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