This compilation of information put together by “The Water Grab” group.

Please **Add to this** by copy and pasting your information with url - to this sheet and forwarding back to those on the steering committee… so we can easily reference information locations at our fingertips, rather than starting from scratch, doing searches each time…..

One very interesting battle for water article is:

<http://www.statesman.com/news/news/state-regional/farmers-battle-state-environmental-agency-in-brazo/nTf9w/>

**Water Conservation**

<http://www.tceq.texas.gov/response/drought/conservation.html>

Water is essential for health, work, and the environment. Learn how you can conserve and what's happening around Texas.

**Tips for Consumers to Save Water and Money**

* Turn off the faucet while brushing your teeth and save up to 4 gallons a minute
* Fix a leaky toilet and save about 73,000 gallons a year
* [Small changes in your routine](http://www.takecareoftexas.org/water-conservation-tips/) add up to big water savings — and savings on your water bill, too.

**Rainwater Collection and Treatment**

Rain is free, but how can you take advantage of it? How can you figure out how much water you can catch, how you can store it, and what you can use it for?

* Learn more about [rainwater collection and treatment](http://www.tceq.texas.gov/permitting/water_supply/rainwater/index.html)

**Water Conservation Programs**

We have several programs to help business and government to not only plan ahead for water shortages, but also make water conservation a part of their standard operating procedure.

* Learn more about how you can [conserve water](http://www.tceq.texas.gov/permitting/water_supply/water_rights/conserve.html) as a city, other water supplier, industry, farmer, or other business.

**Coordinating Conservation in Texas**

We work with other state agencies and local governments in joint efforts to ensure that Texas continues to have enough water for all its needs:

* Our [Instream Uses Program](http://www.tceq.texas.gov/permitting/water_supply/water_rights/instreamusesprogram.html) coordinates scientific studies to determine the flows needed to maintain healthy rivers and bays.
* To ensure the health of our aquifers, we aid the formation of [groundwater conservation districts](http://www.tceq.texas.gov/permitting/water_supply/groundwater/districts.html) and [priority groundwater management areas](http://www.tceq.texas.gov/permitting/water_supply/groundwater/pgma.html). We support these coalitions of local governments in their missions.
* When rainfall is sparse, we coordinate the statewide response to [droughts](http://www.tceq.texas.gov/agency/drought).

**TCEQ Water Utility Database (WUD)**

<http://www.tceq.texas.gov/utilities/iwud.html>

Data, reports, maps, and reference materials of use to water districts and other water utilities in Texas.

* [What is the Water Utility Database?](http://www.tceq.texas.gov/utilities/iwud.html#whatis)
* [Online Training and Help](http://www.tceq.texas.gov/utilities/iwud.html#training)
* [Go to the Water Utility Database (WUD)](http://www10.tceq.state.tx.us/iwud/)
* [Contact Us](http://www.tceq.texas.gov/utilities/iwud.html#contact)

**What is the Water Utility Database?**

The Water Utility Database is a collection of data from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ. Use the database to search for local and regional entities associated with each district, utility or water system.

The Water Utility Database **does not yet** contain water analysis results for Public Water Systems. Individual Public Water Systems receive their chemical water analysis results from the Texas Department of Health Laboratory or the LCRA Environmental Laboratory. In accordance with 30 TAC §290.46, Public Water Systems are required to keep chemical analysis results on file for a minimum of 10 years.

**Online Training and Help**

To have a better understanding of the site and how to successfully navigate it, click the [Water Utilities Database Web Guide](https://edit.tceq.state.tx.us/assets/public/permitting/watersupply/ud/forms/webguide.pdf).

**Contact Us**

Our database is updated weekly. With millions of records in it, you might find some information that is out of date or missing. If this happens please let us know. You can call the Water Supply Division at 512-239-4691 or e-mail us at iwud@tceq.texas.gov.

**Does this rule address private water wells? If not, how does EPA help protect them?**

**This rule does not address private wells because they are not under the jurisdiction of the Safe Drinking Water Act and are therefore not subject to TCEQ regulation**. TCEQ has provided outreach material to states and homeowners to help them understand how to manage individual wells. TCEQ recommends that well owners periodically test their water for microbial and chemical contaminants and properly maintain their well. Information is available on [EPA's Private Wells Web site.](http://www.epa.gov/safewater/privatewells/index2.html)

**Source Water Assessment**

<http://www.tceq.texas.gov/drinkingwater/SWAP/index_swa.html>

Program that fulfills 1996 Safe Drinking Water Act Amendments requirements for TCEQ to assess every public drinking water source for susceptibility to certain chemical constituents.

The TCEQ is required by the 1996 Safe Drinking Water Act Amendments to assess every public drinking water source for susceptibility to certain chemical constituents. The resulting source water susceptibility assessment reports provided to public water systems are then used to implement local source water protection projects. The assessment results also contribute to information contained in the Consumer Confidence Reports.

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| **Featured Items:** |
| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [What Information Does My SWSA Provide?](http://www.tceq.texas.gov/drinkingwater/SWAP/swa.html) Explains the information that may be obtained from your source water susceptibility assessment.  |
| **Related Categories:** |  |  |
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| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [GPS Tools for Public Water System Professionals](http://www.tceq.texas.gov/drinkingwater/SWAP/gps/index.html) Tools for using global positioning system technology in assessing and maintaining your public water system.  |

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| **Topics Under This Category:** |

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| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [Finding Information about Water Wells in Texas](http://www.tceq.texas.gov/drinkingwater/SWAP/wells.html) Links to resources that can help you locate information on water wells.  |
| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [How to Interpret SWSA Maps](http://www.tceq.texas.gov/drinkingwater/SWAP/swsa_maps.html) Information on how to read the SWSA maps. Explains the colors and circles on the maps.  |
| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [PSOCs: A Detailed List](http://www.tceq.texas.gov/drinkingwater/SWAP/psoc_types.html) Potential Source of Contamination Types and Subtypes: Detailed Listing, Descriptions and Applied Contaminants.  |
| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [Public Drinking Water Source Locations: Checking and Maintaining Accuracy](http://www.tceq.texas.gov/drinkingwater/SWAP/source_locations.html) How to make corrections to locations, how to map new locations, and tips for accurately mapping locations.  |
| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [SWSA Result Interpretation](http://www.tceq.texas.gov/drinkingwater/SWAP/swsa_results.html) Explains the meaning of high, medium, and low in the context of a source water susceptibility assessment.  |
| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [Source Water Assessment Approach and Methodology](http://www.tceq.texas.gov/drinkingwater/SWAP/approach_methodology/swapmethods.html)  |
| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [What Information Does My SWSA Provide?](http://www.tceq.texas.gov/drinkingwater/SWAP/swa.html) Explains the information that may be obtained from your source water susceptibility assessment.  |

**Source Water Protection**

<http://www.tceq.texas.gov/drinkingwater/SWAP/index_swp.html>

Support offered to public water systems to identify and implement measures that will protect their sources of water from contamination.

Source Water Protection is a voluntary program that helps public water systems protect their drinking water sources. Locally controlled and implemented, a source water protection program is designed to protect drinking water sources from potential sources of contamination.

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| **Featured Items:** |

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| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [How to become involved in a Source Water Protection Program?](http://www.tceq.texas.gov/drinkingwater/SWAP/swp.html) Find out how your public water system can participate in the Source Water Protection Program and how easy it is to join.  |
| **Related Categories:** |  |  |
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| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [GPS Tools for Public Water System Professionals](http://www.tceq.texas.gov/drinkingwater/SWAP/gps/index.html) Tools for using global positioning system technology in assessing and maintaining your public water system.  |

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| **Topics Under This Category:** |

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| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [Example Contingency Plan for a Public Water Supply](http://www.tceq.texas.gov/drinkingwater/SWAP/contingency_plan.html) An example of an important component of a source water protection program.  |
| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [How to become involved in a Source Water Protection Program?](http://www.tceq.texas.gov/drinkingwater/SWAP/swp.html) Find out how your public water system can participate in the Source Water Protection Program and how easy it is to join.  |
| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [Participants in the Source Water Protection Program](http://www.tceq.texas.gov/drinkingwater/SWAP/participants.html) List of current participants in the TCEQ's Source Water Protection Program.  |
| Description: http://www.tceq.texas.gov/++theme++tceq.diazo/static-assets/arrow_orange.gif | [SWP Sign](http://www.tceq.texas.gov/drinkingwater/SWAP/swap_sign.html) TxDOT-approved sign for designating a source water protection area.  |

**Public Water System Plan Review**

<http://www.tceq.texas.gov/utilities/planrev.html>

Explains reviews of technical plans of public water systems carried out by the TCEQ before construction begins. Also lists plans under review with estimated review timelines.

* [Submittals of Plans and Specifications for Water Systems](http://www.tceq.texas.gov/utilities/planrev.html#submittals)
* [New PE Board Rules on the Submission of Engineering Materials to the TCEQ](http://www.tceq.texas.gov/utilities/planrev.html#peboard)
* [When Is a TCEQ Review NOT Required?](http://www.tceq.texas.gov/utilities/planrev.html#when)
* [TCEQ Suggested Construction Notes That Will Help Expedite Plan Review Process](http://www.tceq.texas.gov/utilities/planrev.html#TCEQ)
* [Status of Plan Reviews in Progress](http://www.tceq.texas.gov/utilities/planrev.html#status)
* [Radionuclide Testing Required for Well Completion](http://www.tceq.texas.gov/utilities/planrev.html#radionuclide)

Our reviews are based upon the requirements in the TCEQ’s “Rules and Regulations for Public Water Systems,” 30 TAC Chapter 290.38 through 290.47. Download TCEQ rules in PDF format at the [following website.](http://www.tceq.texas.gov/rules/indxpdf.html#290) You can also download any of our [checklists and forms.](http://www.tceq.texas.gov/utilities/publist.html)

**Submittals of Plans and Specifications for Water Systems**

* Waterline, tank, groundwater chemical treatment system (except for changes to chloramination) and pump system plans and all specifications **only** may be submitted on CD-R;
* Electronic signatures, seals, and dates allowed by Texas Board of Professional Engineers;
* P&S must be in Adobe (\*.pdf) format with one folder for plans and one folder for specs;
* Hard copies may still be submitted. We only request hard copies if CD submittals are not legible or, are too complex.
* [Detailed information on CD submittals.](http://www.tceq.texas.gov/utilities/publist.html#submittals)
* [Frequently Asked Questions (FAQs)](http://www.tceq.texas.gov/utilities/publist.html#frequently)

Please submit **ONLY ONE** of each of the following for plan review and approval:

* Cover letter with engineering report
* Submittal form
* TCEQ Core Data Form (for new systems)

[Core Data Form and Instructions](http://www.tceq.state.tx.us/permitting/central_registry/)

* Sealed engineering plans and specifications
* Well completion data

**PLEASE MAIL to**:

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| --- |
| Utilities Technical Review TeamWater Supply Division MC -159TCEQP.O. Box 13087Austin, Texas 78711-3087 |

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**New PE Board Rules on the Submission of Engineering Materials to the TCEQ**

Please note that the Texas Board of Engineers Rules 137.33 and 137.77 have been recently changed to require that all engineering documents released, issued, or submitted by or for a registered engineering firm, including preliminary documents, must clearly indicate the engineering firm name and firm registration number. It is both the responsibility of the PE that signs and seals a document and the firm that releases the document to verify that the firm name and number appear on the engineering work.

You can find the full text of the rules [here: specifically 137.33(n) & 137.77(h).](http://www.tbpe.state.tx.us/downloads.htm#general) 

The Board has developed a Frequently Asked Questions page to help explain this requirement. You can access the [FAQ at the following website.](http://engineers.texas.gov/firm_faq.htm)

Please note these rules are in effect now; however, no enforcement sanctions will be issued specific to violations of this new Board requirement until January 1, 2010.

**When Is a TCEQ Review NOT Required?**

Please note that for certain distribution systems, our rules do NOT require the submittal of engineering plans and specifications. Review and approval MAY be required for those projects that are defined by Section 290.39(j)(1)(D) as a significant change in an **existing** distribution system that would add more than 10% of the existing capacity or 250 connections whichever is smaller. The TCEQ must be notified of the proposed project by a Texas professional engineer only if the distribution expansion is defined as significant. Upon request by the TCEQ, public water systems shall submit plans and specifications for the proposed changes.

If distribution system modifications are not defined as significant, **TCEQ review is not required**. If a TCEQ response letter is needed, a written request must be submitted to the TCEQ for those distribution projects that are defined as **not** significant.

Please be advised that even though the TCEQ will not review engineering materials for distribution projects that are not significant, requirements found in 30 TAC Chapter 290 must **still** be met in the design and installation of the waterline project.

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**TCEQ Suggested Construction Notes That Will Help Expedite Plan Review Process**

* [Ground Storage Tank](http://www.tceq.texas.gov/assets/public/permitting/watersupply/ud/stor_const.pdf) (PDF file. Help with [PDF](http://www.tceq.texas.gov/help/site/help_pdf.html).)
* [Hydropneumatic Pressure Tank](http://www.tceq.texas.gov/assets/public/permitting/watersupply/ud/presstank_const.pdf)
* [Proposed Water Well](http://www.tceq.texas.gov/assets/public/permitting/watersupply/ud/well_const.pdf)
* [Water Distribution System](http://www.tceq.texas.gov/assets/public/permitting/watersupply/ud/dist_const.pdf)

**Status of Plan Reviews in Progress**

To view status of plan reviews in progress, please visit the following website: ["Main IWUD Report Form,"](http://www10.tceq.state.tx.us/iwud/reports) Select the report called **"PWS Plan Review Report,"** then **"Select Report."** A question follows **"Are you ready to process the report?"** Select **"Yes."** The list will have all plans that have either: (1) not been picked up for review, or (2) are currently under review. They are listed alphabetically by the name of the water system. If you have any questions, e-mail us at utildist@tceq.texas.gov and refer to your project's log number.

**Radionuclide Testing Required for Well Completion**

Several areas of Texas have groundwater with elevated radionuclide levels. If you are drilling a well in a [county where radionuclide testing is required](http://www.tceq.state.tx.us/permitting/water_supply/pdw/chemicals/radionuclides/pdw_rad.html), you must conduct radionuclide testing for interim approval.

For guidance on conducting this testing properly, see [How to Conduct Radionuclide Testing for Well Completion Interim Approval](http://www.tceq.state.tx.us/permitting/water_supply/pdw/chemicals/radionuclides/pdw_rad.html).

[Contact us](http://www.tceq.state.tx.us/permitting/water_supply/ud/ud_contact.html) if you have any questions.

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Related content

[Technical Guidance for Public Water System Operators and Engineers](http://www.tceq.texas.gov/drinkingwater/technical_guidance/index.html)

[Rules and Guidance for Public Water Systems](http://www.tceq.texas.gov/drinkingwater/pdw_rulesGuide.html)

**Texas Water Conditions & Data - Texas Water Development Board (this board is who published the 1967 Geological Survey R68)**

<http://www.twdb.state.tx.us/surfacewater/conditions/index.asp>

Texas has 23 river basins, including 15 major river basins and eight coastal basins, each with varying hydrological regimes and abilities to supply water.  Surface water is an important source of water for Texas and one that is growing in significance.  In 2008, it accounted for nearly 40% of the 16.1 million acre-feet of water used in Texas ([2012 State Water Plan](http://www.twdb.state.tx.us/waterplanning/swp/2012/index.asp)).  Surface water strategies to meet needs in 2060 account for 51% of the recommended volume of new water in the 2012 State Water Plan.  However, this critical water source faces several challenges in the coming years, including aging reservoirs which are filling with sediment and the lack of viable sites for new reservoirs.

The Surface Water Resources Division at TWDB is responsible for aiding water resources planning and management efforts by providing scientific data and engineering expertise in support of TWDB's statutory requirements (Texas Water Code §§16.012).  This is accomplished through the numerous data collection efforts listed below, a significant portion of which is made available to TWDB partners and customers, including citizens, state water planners, regulators, lake and reservoir owners, and other decision-makers via the agency website.  Additional data not hosted on the website is available upon request.

[Water Data for Texas](http://www.waterdatafortexas.org/) is a new effort by TWDB staff to provide a single access point for customers to receive water-related data.  At this time, Water Data for Texas hosts only Texas historical and current reservoir data, but staff is working to expand the website to include additional data related to bays and estuaries, drought, and groundwater.

**Listing of Available Data Sources**

[**Water Data for Texas**](http://www.waterdatafortexas.org/)provides the most comprehensive information available of conditions in 109 major water supply reservoirs in Texas.  This represents 95% of the total conservation storage capacity of the 188 major water supply reservoirs in Texas.  By definition, a major reservoir has a conservation storage capacity of 5,000 acre-feet or greater.  To complete Water Data for Texas, TWDB compiled extensive records from federal, state, and local partners to generate current and historical information on reservoir levels, storage, surface area, and elevation-area-capacity curves.  In many cases, the website provides data for the entire history of the reservoir.   <http://www.waterdatafortexas.org/reservoirs/statewide>  **<<----  This is a very interesting source of information!**

[**Texas Water Conditions Report**](http://www.twdb.state.tx.us/surfacewater/conditions/report/index.asp) is a monthly summary report describing statewide and regional conditions for 109 major water supply reservoirs, 29 stream flow measurement stations, and 17 key groundwater monitoring wells.  More detailed information about the water supply reservoirs is available through [Water Data for Texas](http://www.waterdatafortexas.org/).

[**Precipitation & Evaporation Data**](http://www.twdb.state.tx.us/surfacewater/conditions/evaporation/index.asp) - Monthly and annual precipitation and evaporation rates are provided for each 1° quadrangle in Texas.  Precipitation data are available from 1940 while gross lake surface evaporation data are available beginning in 1954.

[**Drought**](http://www.twdb.state.tx.us/apps/droughtinfo/default.aspx) � TWDB compiles data for six drought indices including, the Crop Moisture Index, Palmer Drought Severity Index, Standardized Precipitation Index, Keetch-Byram Drought Index, Reservoir Storage Index, and Streamflow Index.  This data is available from August 2009 to present.

[**Lake Surveys**](http://www.twdb.state.tx.us/surfacewater/surveys/index.asp) � TWDB's Hydrographic Survey Program collects bathymetric and sedimentation data on reservoirs throughout Texas.  Current elevation-area-capacity calculations and GIS data can be downloaded from the [list of completed surveys](http://www.twdb.state.tx.us/surfacewater/surveys/completed/list/index.asp).  Additional requests or questions can be submitted to hydrosurvey@twdb.texas.gov.

[**Coastal Hydrology**](http://www.twdb.state.tx.us/surfacewater/bays/coastal_hydrology/index.asp) � TWDB compiles estimates of freshwater inflows to Texas bays and estuaries.  Monthly and annual inflow summaries, beginning in 1941, are available on the website for the Sabine-Neches, Trinity-San Jacinto, Lavaca-Tres Palacios, Guadalupe, Mission-Aransas, and Nueces estuaries as well as the combined Upper and Lower Laguna Madre Estuary.  Inflow summaries for the Brazos River Estuary, San Bernard Estuary, East Matagorda Bay, and separated Upper Laguna Madre and Lower Laguna Madre also are available and begin in 1977.  More detailed hydrology requests can be submitted to coastal-data@twdb.texas.gov.

[**Estuary Monitoring/Datasonde Data**](http://www.twdb.state.tx.us/surfacewater/bays/monitoring/index.asp) � TWDB collects water temperature, conductivity, level, and salinity data every 60 minutes at select locations in all major and some minor estuaries in Texas, with some data extending back to 1986.  TWDB also occasionally collects dissolved oxygen, pH, and other parameters as part of special studies.  Data requests can be submitted to coastal-data@twdb.texas.gov.

[**Estuarine Hydrographic Studies**](http://www.twdb.state.tx.us/surfacewater/bays/surveys/index.asp) � TWDB has conducted synoptic hydrographical surveys of all major Texas estuaries to obtain water velocity, water level, and water quality data in navigation channels and other representative bay locations over several tidal cycles.  Data from surveys collected between 1987 and 2003 are available on the website.

Brazos River Authority History:  <http://www.tshaonline.org/handbook/online/articles/mwb01>