

References and Further Reading

Chapter 12: Groundwater and Wetlands

We open and close the chapter with a comparison of bottled water and tap water. There have been numerous news stories about these choices in recent years, for example see the Los Angeles Times (<http://articles.latimes.com/2008/oct/13/health/he-nutrition13>) or USA Today (http://www.usatoday.com/news/health/painter/2007-08-26-painter-yourhealth_N.htm). For more on how water is used in the US, go to <http://water.usgs.gov/watuse/>.

The features of the Woburn case are outlined at a excellent site designed by Dr. Scott Bair from Ohio State University at <http://serc.carleton.edu/woburn/resources/>. The US Environmental Protection Agency (EPA) supervised clean up of the site is summarized at <http://www.epa.gov/NE/superfund/sites/wellsgh/factsh.html>.

The basics of groundwater are described in an online Groundwater Primer hosted by Purdue University at <http://www.purdue.edu/dp/envirosoft/groundwater/src/title.htm>. The USGS Aquifer Basics site (<http://capp.water.usgs.gov/aquiferBasics/>) was the source for the maps of different types of aquifers included in the chapter. The site describes the features of the different types of aquifers and lists all the major US aquifers in alphabetical order. Can you find the aquifer under your area? If you *really* like groundwater, then you might want to dip into the Ground Water Atlas of the US

(<http://capp.water.usgs.gov/gwa/gwa.html>) that divides the country into 13 regions and describes the major aquifers in each region.

The National Water-Quality Assessment (NAWQA) Program monitors water quality in the US (<http://water.usgs.gov/nawqa/>). About a third of major US aquifers are being studied to assess their potential susceptibility for contamination

(<http://water.usgs.gov/nawqa/studies/praq>). For example, an analysis of the Floridian aquifer is available online at <http://pubs.usgs.gov/circ/2005/1278/>. Data on the High Plains Aquifer is summarized at the Nebraska Water Science Center site, <http://ne.water.usgs.gov/highplains.html>. For greater detail, see a 2003 USGS report on the aquifer system (<http://pubs.usgs.gov/circ/2003/circ1243/pdf/C1243.pdf>).

Numerous examples of subsidence related to human activities in the US are described in USGS Circular 1182 (<http://pubs.usgs.gov/circ/circ1182/>). The Bangladesh arsenic contamination crisis is described in some detail by the British Geological Survey (http://www.bgs.ac.uk/arsenic/bphase1/b_intro.htm) and readers have the option of downloading additional reports that discuss different geological aspects of the groundwater analysis.

The US EPA has an extensive website (<http://www.epa.gov/owow/wetlands/>) that describes the different types of wetlands, and how and why they should be protected.

The efforts to restore wetland environments in the Florida Everglades are described at <http://www.evergladesplan.org/>, the home of the Comprehensive Everglades Restoration Plan.