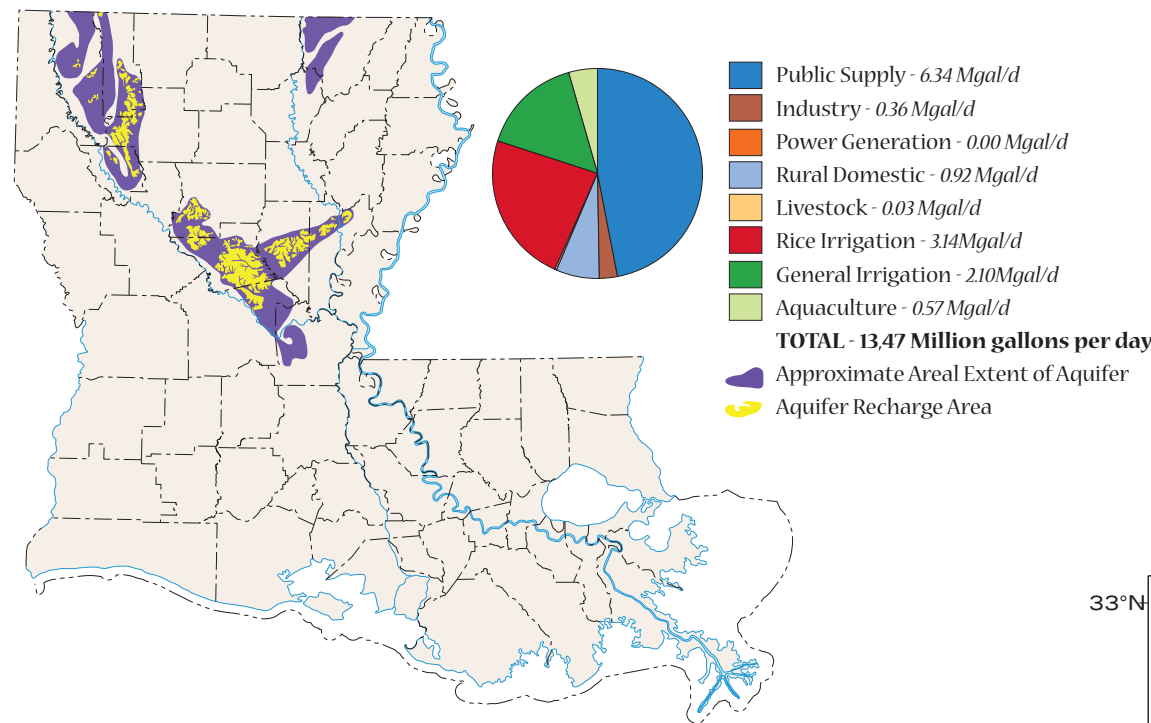


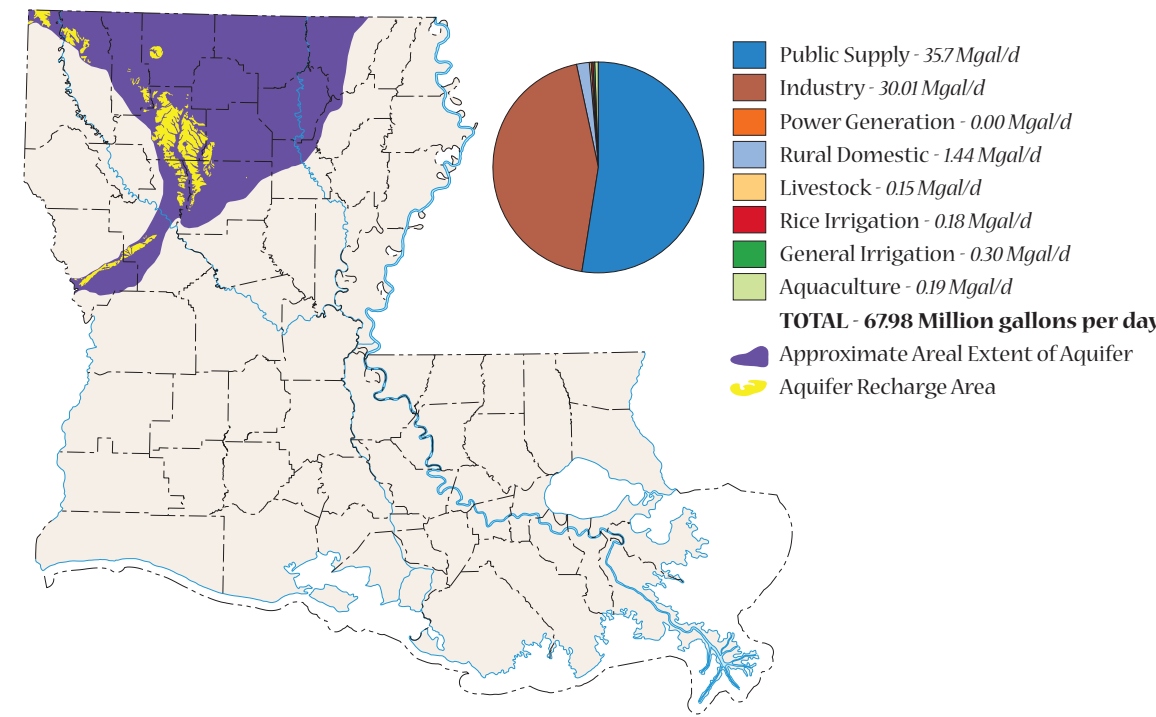
Louisiana's Principal Freshwater Aquifers



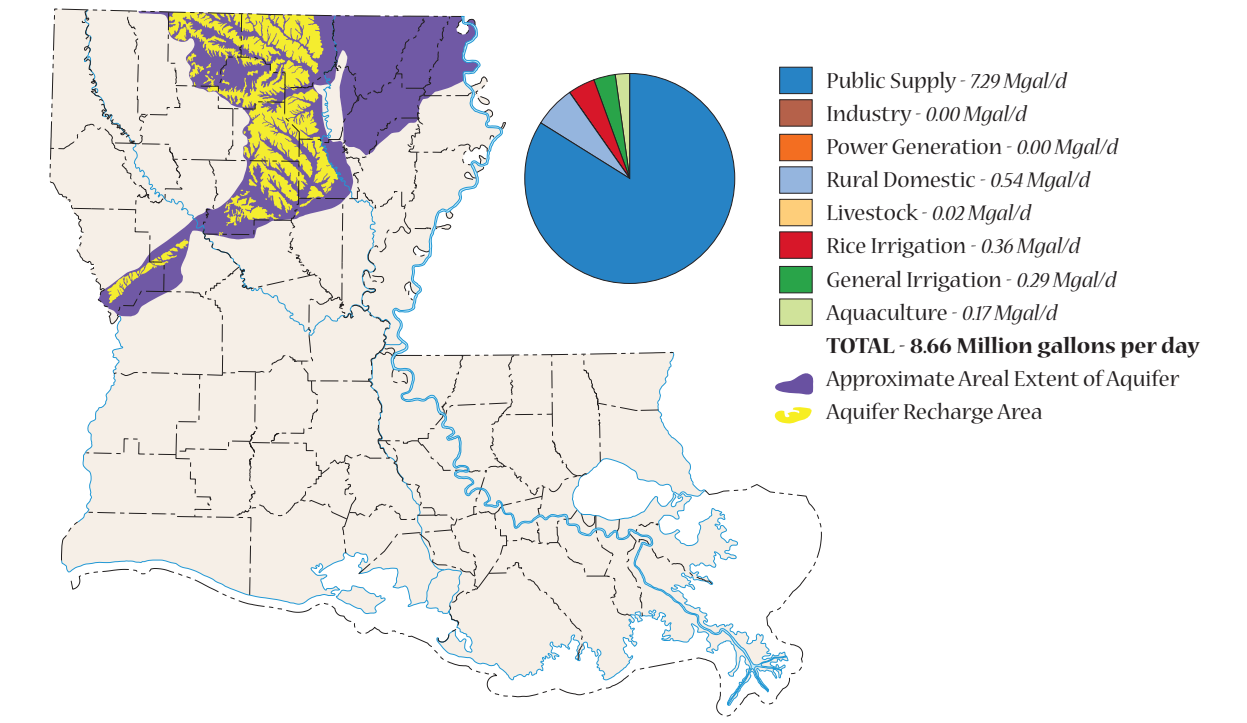
Upland Terrace Aquifer



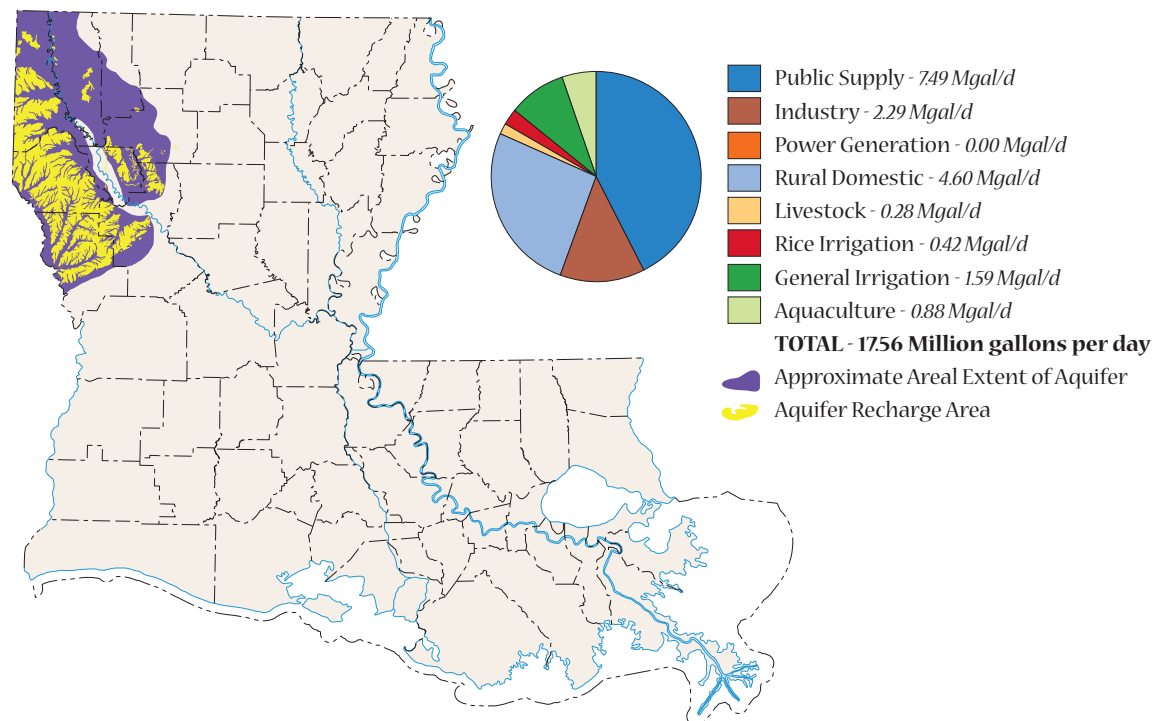
Sparta Aquifer System



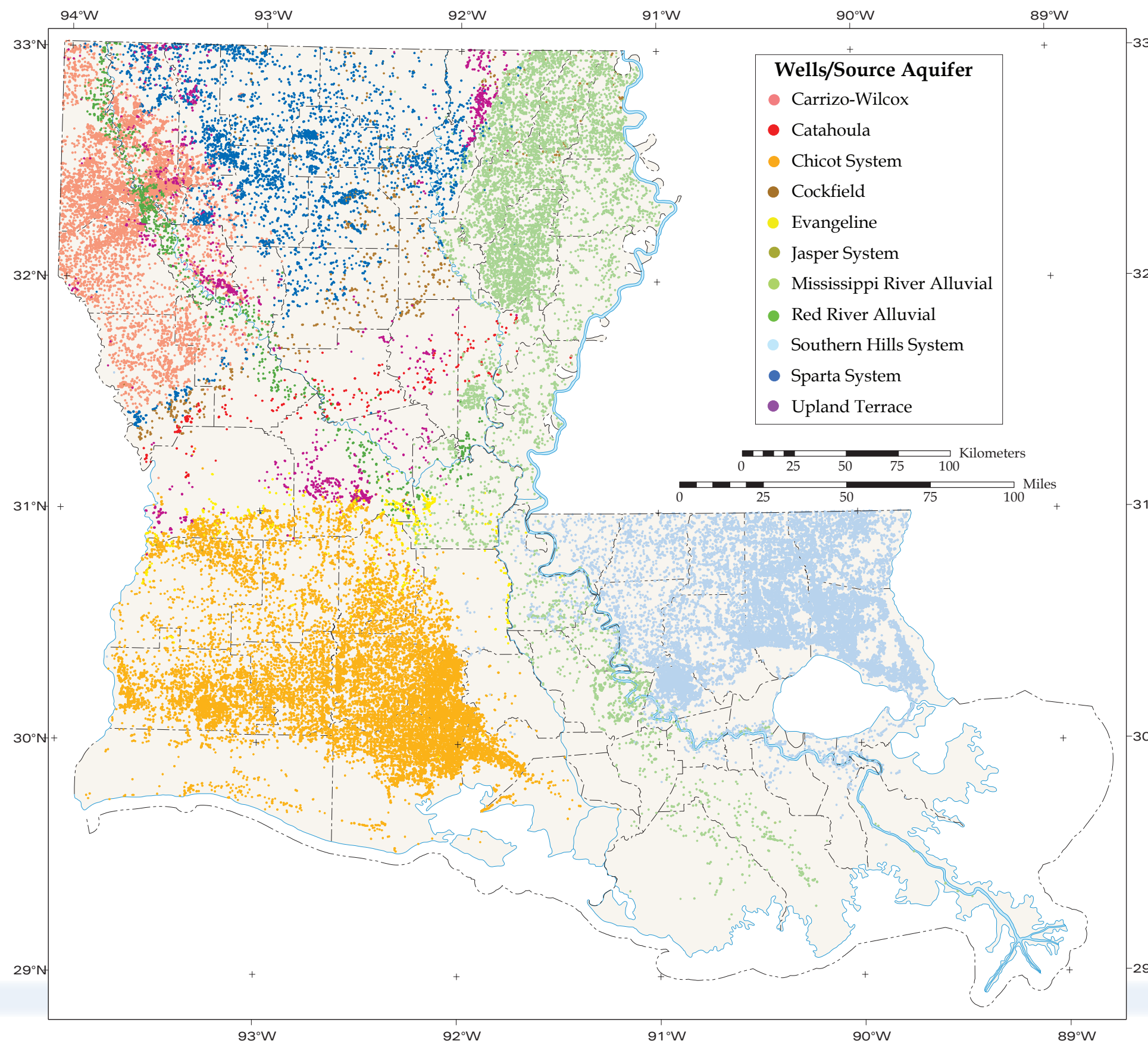
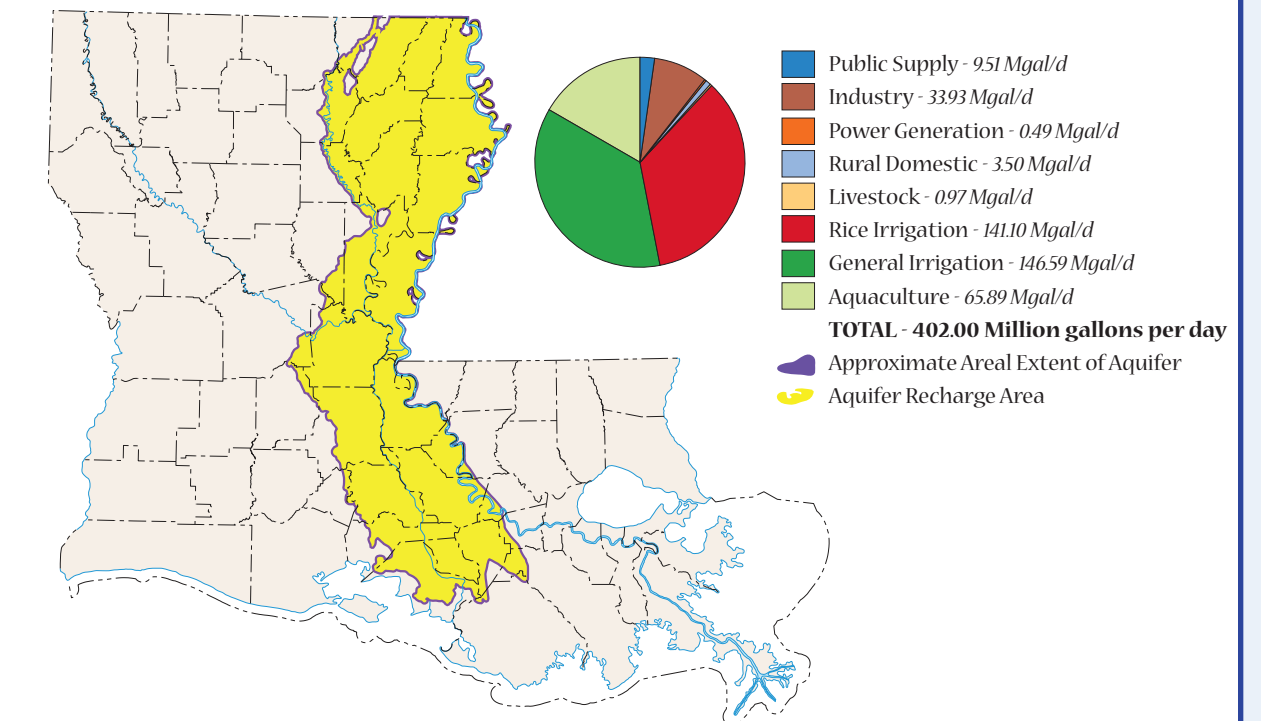
Cockfield Aquifer



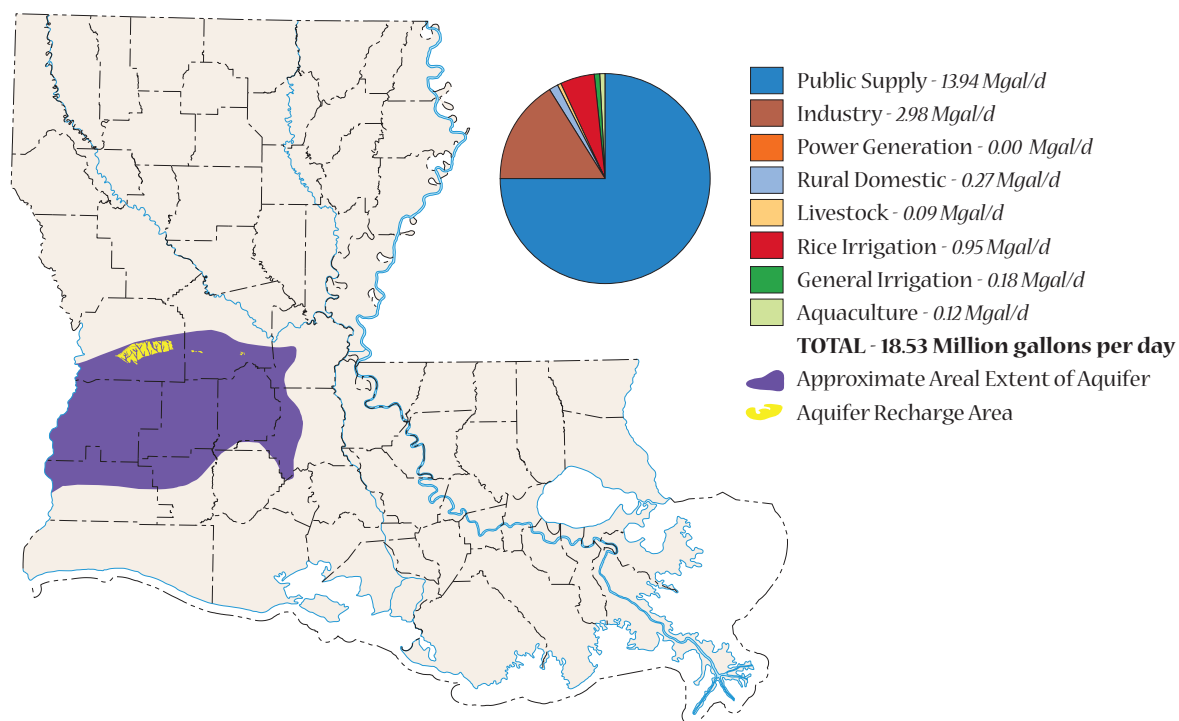
Carrizo-Wilcox Aquifer



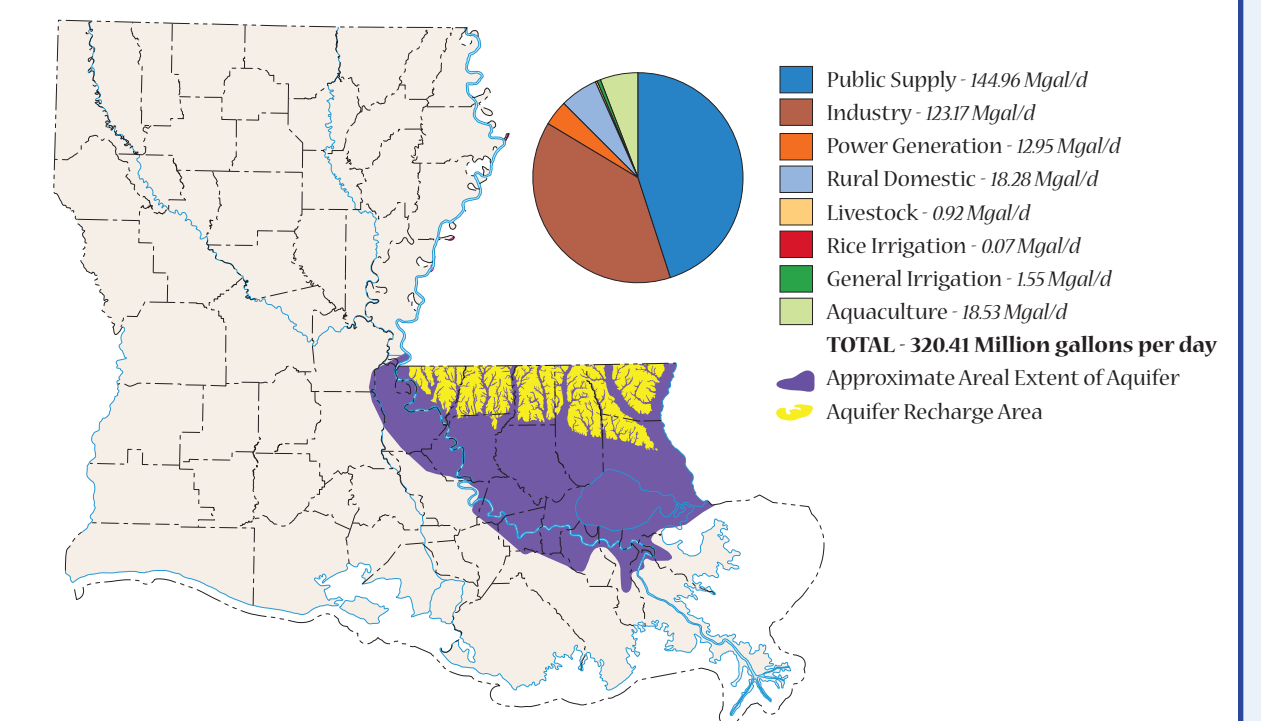
Mississippi River Alluvial Aquifer



Evangeline Aquifer



Southern Hills Aquifer System



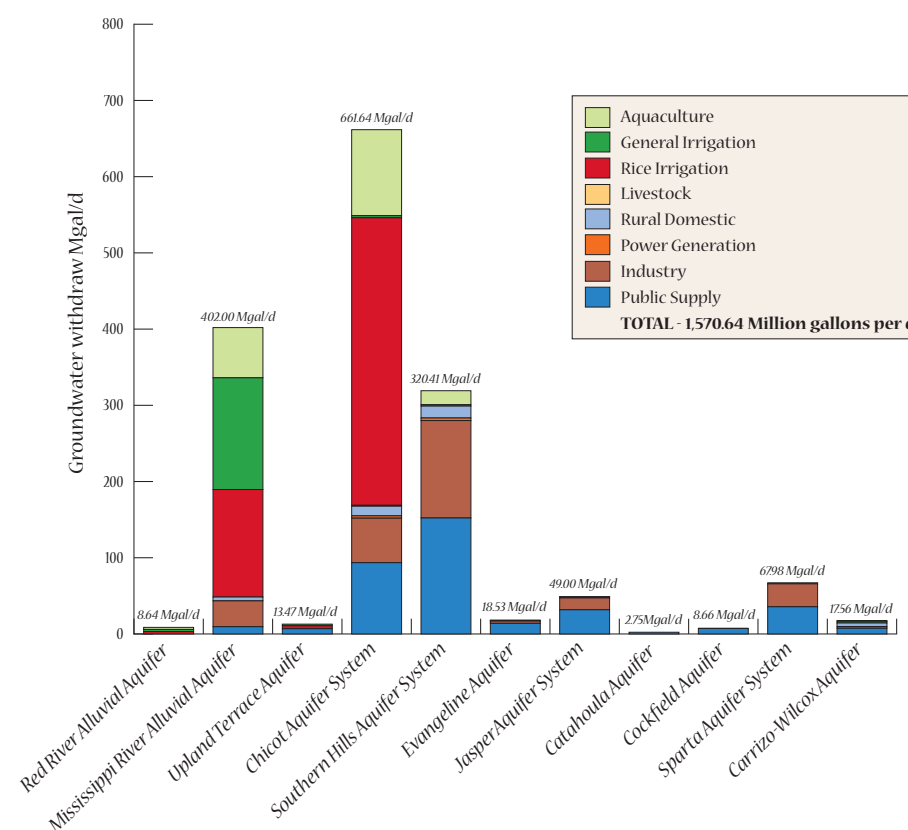
EXPLANATIONS

The larger state map shows the distribution of known groundwater supply wells (wells not used for water supply or not registered with the Louisiana Department of Transportation and Development are not shown) in each of the principal freshwater aquifers of Louisiana.

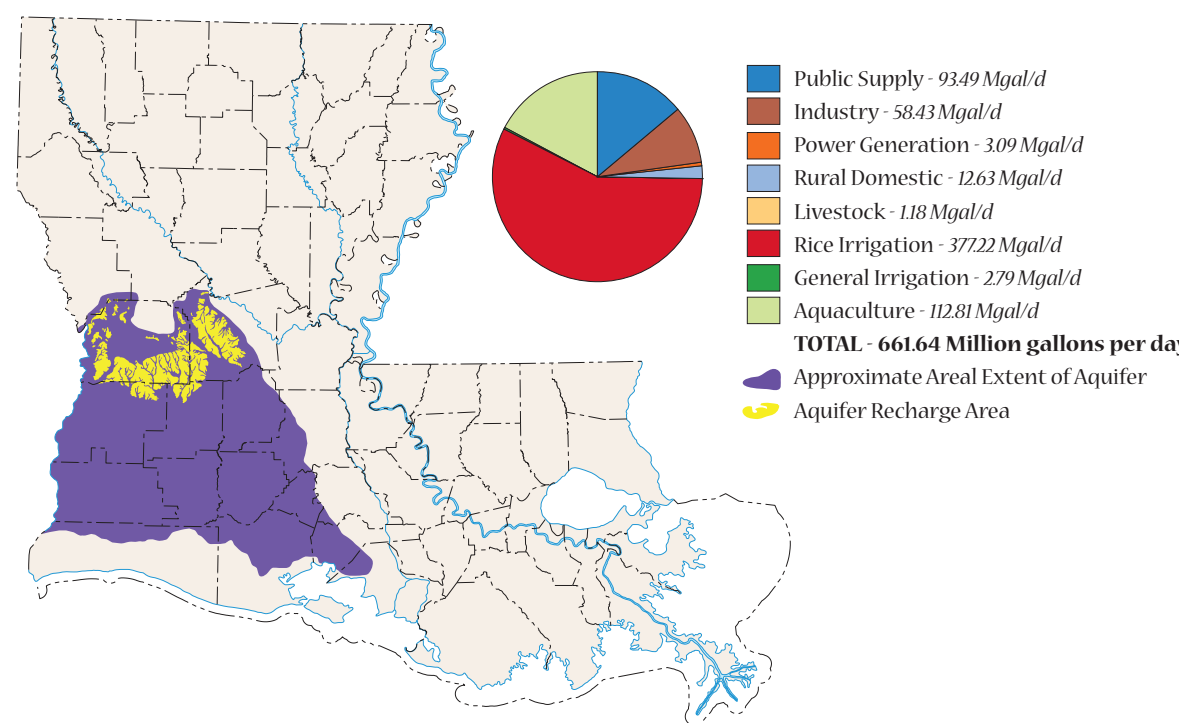
The inset maps depict the areal distribution of the aquifer in purple where confined (e.g. the aquifer is separated from the ground surface by a confining layer, generally a clay) and in yellow where unconfined (e.g. the aquifer material is exposed at the ground surface, enabling direct recharge of the aquifer by precipitation).

The pie charts show the estimated distribution of annual groundwater withdrawn by water use category, as reported in the 2007 Louisiana Department of Transportation and Development Water Resources Special Report No. 16. The water use categories include the following: public water supplies (e.g. private or public wells providing water to a group of people); industry; power generation; rural domestic [wells providing water to a single household; estimated based upon a 80 gal/day per person usage multiplied by the estimated proportion of the population (based on the U.S. census) not covered under the public water supply]; livestock; rice irrigation; general irrigation (farmland); and aquaculture.

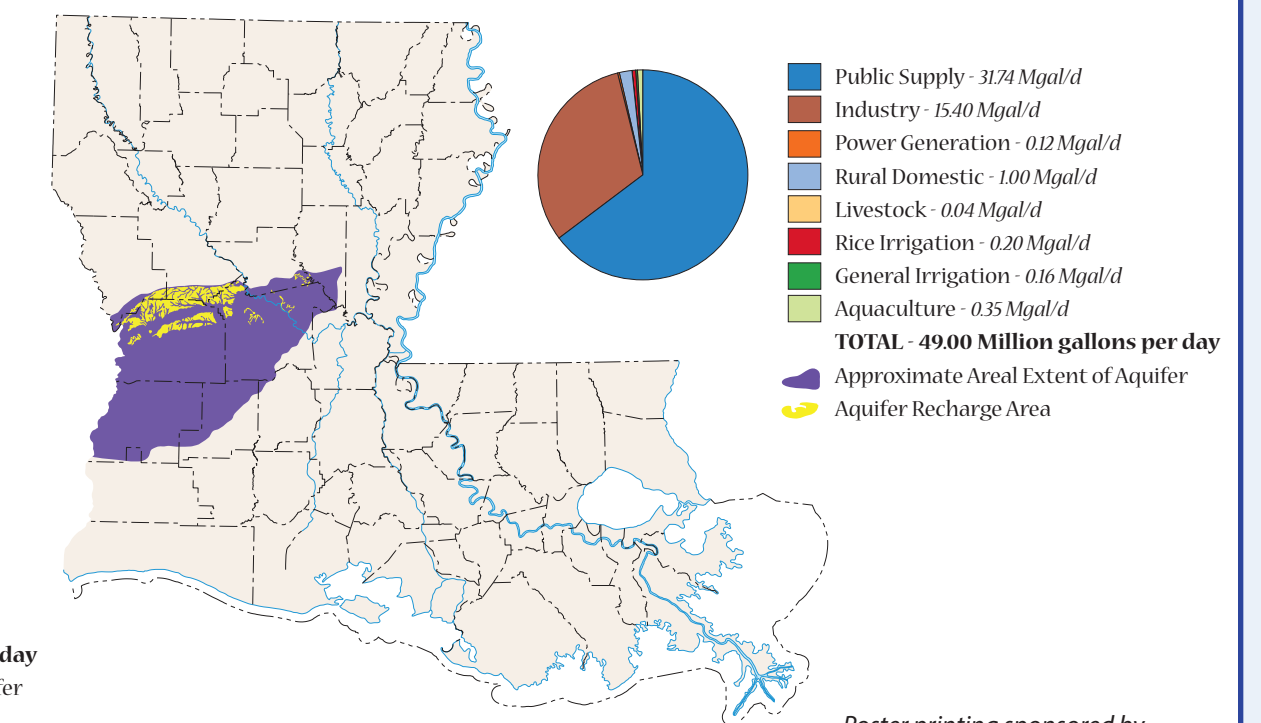
The bar graph shows a comparative representation of the cumulative groundwater use per aquifer system, as reported in the 2007 Louisiana Department of Transportation and Development Water Resources Special Report No. 16.



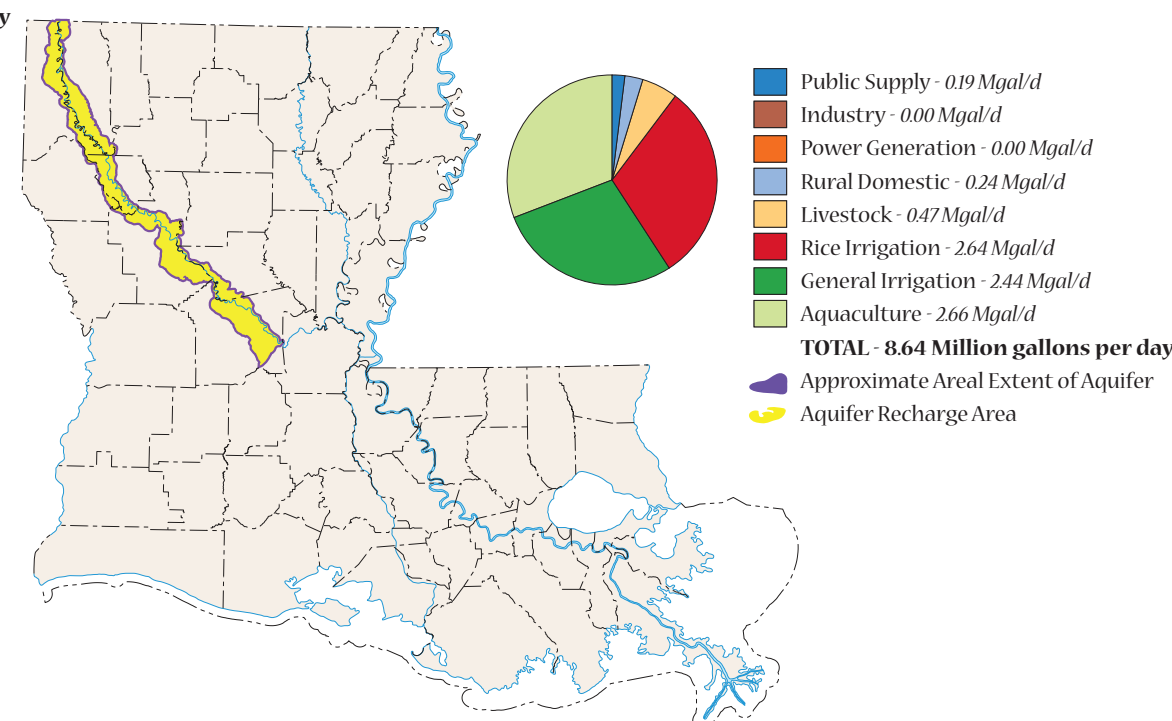
Chicot Aquifer System



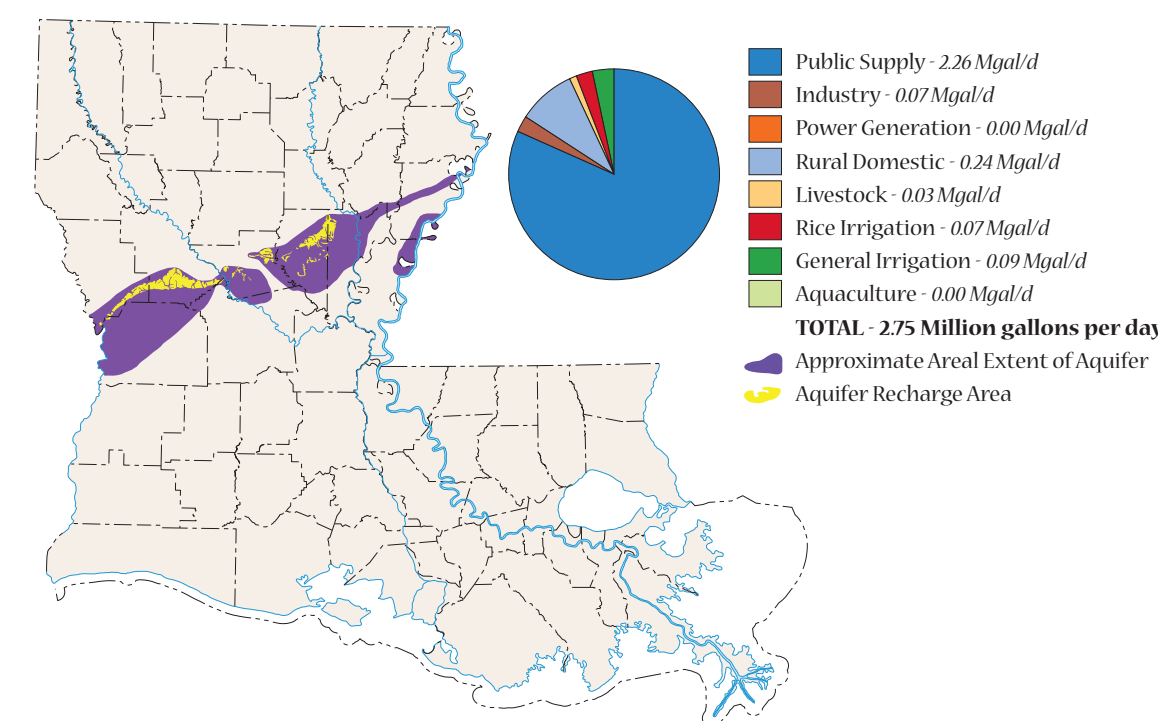
Jasper Aquifer System



Red River Alluvial Aquifer



Catahoula Aquifer



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Disclaimer
Maps were generated by the Louisiana Geological Survey, LSU. No claims are made as to the completeness nor accuracy of the information included herein. The registered well data were derived from the Louisiana Department of Transportation and Development Water Resources Section (LDOTD) database, dated August 13, 2009. The water usage data were obtained from the 2007 LDOTD Water Resources Special Report No. 16 (author: B. Pierre Sargent). The aerial extent of the aquifers are approximated upon the 1984 Geologic Map of Louisiana and the 2007 LDOTD Water Resources Special Report No. 16.

The data were compiled by Thomas P. Van Biersel and L. Riley Milner, design by Robert L. Paulsell and Lisa Pond, Louisiana Geological Survey, Louisiana State University, Baton Rouge, Louisiana, January 2010.
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