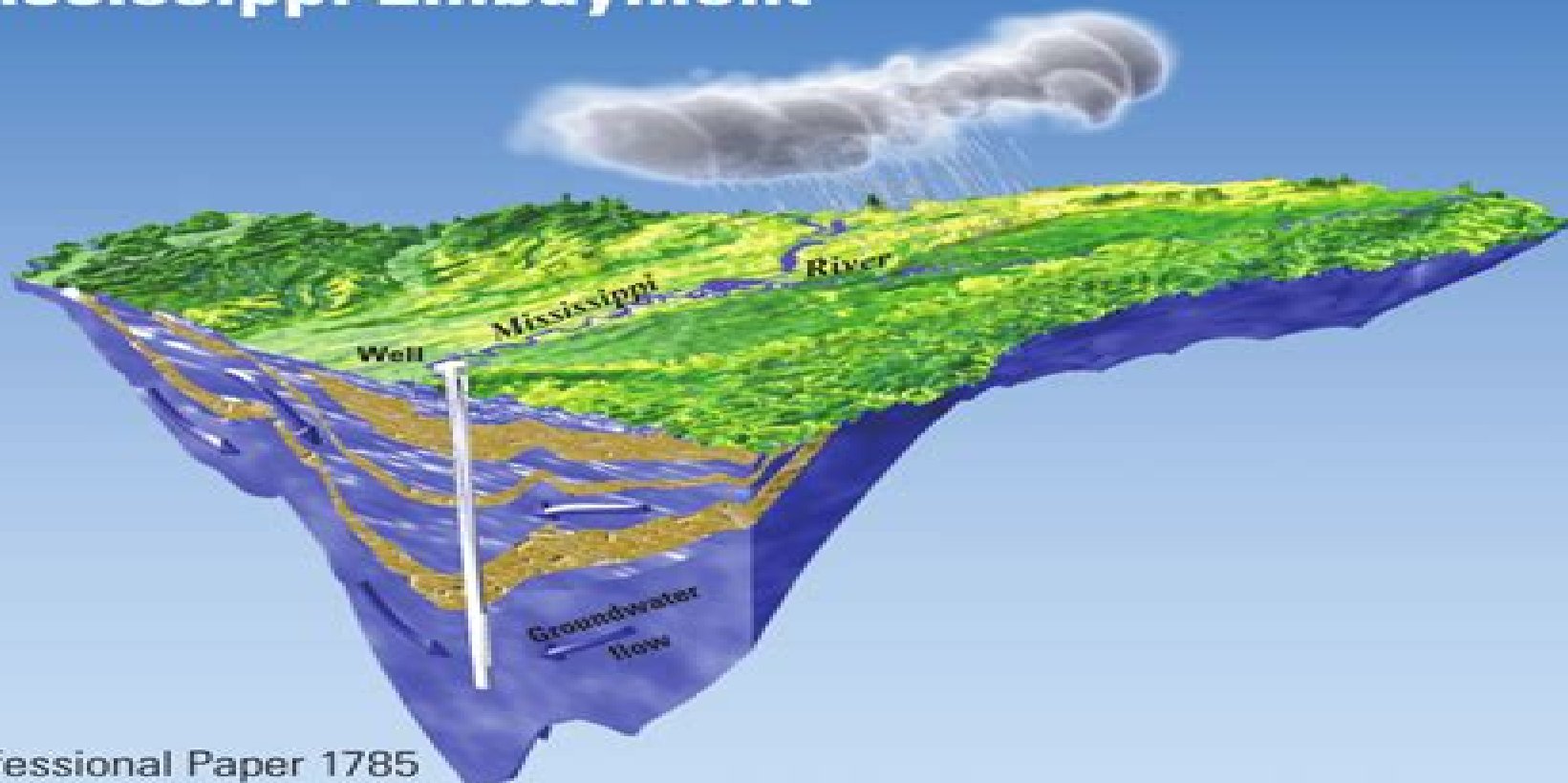


Groundwater Resources Program

Groundwater Availability of the Mississippi Embayment



Professional Paper 1785

Groundwater Availability Of The Mississippi Embayment

SJ Ball



Groundwater Availability Of The Mississippi Embayment:

Groundwater Availability of the Mississippi Embayment Brian R. Clark, Jason J. Gurdak, Rheannon M. Hart, 2011

Groundwater is an important resource for agricultural and municipal uses in the Mississippi embayment. Arkansas ranks first in the Nation for rice and third for cotton production with both crops dependent on groundwater as a major source of irrigation requirements. Multiple municipalities rely on the groundwater resources to provide water for industrial and public use which includes the city of Memphis, Tennessee. The demand for the groundwater resource has resulted in groundwater availability issues in the Mississippi embayment including 1 declining groundwater levels of 50 feet or more in the Mississippi River Valley alluvial aquifer in parts of eastern Arkansas from agricultural pumping, 2 declining groundwater levels of over 360 feet over the last 90 years in the confined middle Claiborne aquifer in southern Arkansas and northern Louisiana from municipal pumping, and 3 litigation between the State of Mississippi and a Memphis water utility over water rights in the middle Claiborne aquifer. To provide information to stakeholders addressing the groundwater availability issues, the U.S. Geological Survey Groundwater Resources Program supported a detailed assessment of groundwater availability through the Mississippi Embayment Regional Aquifer Study (MERAS). This assessment included 1 an evaluation of how these resources have changed over time through the use of groundwater budgets, 2 development of a numerical modeling tool to assess system responses to stresses from future human uses and climate trends, and 3 application of statistical tools to evaluate the importance of individual observations within a groundwater monitoring network. An estimated 12 million acre feet per year (11 billion gallons per day) of groundwater was pumped in 2005 from aquifers in the Mississippi embayment. Irrigation constitutes the largest groundwater use, accounting for approximately 10 million acre feet per year (9 billion gallons per day) in 2000 from the Mississippi River Valley alluvial aquifer in Arkansas, Louisiana, Mississippi, and Missouri, and to a lesser extent in Illinois, Kentucky, and Tennessee. Predevelopment groundwater flow is represented in the MERAS model as a steady state stress period assumed to be prior to 1870. The simulated groundwater flow budget indicates the largest predevelopment inflow to the system is net recharge to the alluvial aquifer. This inflow is balanced by outflow to gaining streams. Overall, water enters as net recharge to the alluvial aquifer or through outcrop areas of the various hydrogeologic units. Away from the outcrop areas, groundwater flow in the deeper formations is primarily upward into overlying units, ultimately discharging to streams through the alluvial aquifer. Total net recharge and discharge (sum of inflows or outflows) for the model ranged from about 0.66 million acre feet per year during predevelopment to 20.16 million acre feet per year by the end of the simulation (final simulated irrigation period in summer of 2006). This change in the model budget reflects increases in withdrawals compared to predevelopment conditions. Cumulative storage within aquifers simulated in the MERAS model indicates overall depletion of 140 million acre feet equivalent to 2.8 feet of water covering the entire study area. Postdevelopment inflow to the system is still through net recharge to the alluvial aquifer and the outcrop areas of the several

hydrogeologic units however the flow between each unit is no longer upward to the alluvial aquifer Groundwater flow during the summer of 2006 was primarily downward to offset demand from pumping Early in the model simulation 1870 1920s the primary components of the water budget were simulated as outflow from stream leakage and inflow from net recharge As pumpage increased through time water that would otherwise flow to streams reversed and net stream leakage became an inflow to the system The largest reversals began in the mid 1980s but indications of the reversal began in the early 1960s with a trend in loss of streamflow leakage coupled with the first consistent inflow from storage While groundwater pumped out of the alluvial aquifer was derived primarily from storage pumpage out of the middle Claiborne aquifer was derived primarily from other aquifers up to 15 percent from the alluvial aquifer followed by flow from storage and net recharge The potential consequences of climate change have been identified as a major concern facing the sustainability of the Nation s groundwater resources To address this concern two climate simulations were developed through the use of the MERAS model by extending the simulation period by 30 years to the year 2038 using extrapolated precipitation based on frequency analysis of historic climate cycles There is little difference between the dry and wet scenarios in terms of percent water level change Both scenarios resulted in 14 6 to 13 9 percent of the area containing more than 100 feet of decline 14 5 to 13 8 percent containing between 75 and 100 feet of decline and 15 8 to 15 7 percent containing 51 to 75 feet of decline in the alluvial aquifer The middle Claiborne aquifer water level changes also were similar between the two scenarios These scenarios indicate that even with a 25 percent increase in precipitation from that of the dry scenario there is little difference in the resultant water levels This is in large part because of the magnitude of differences between changes in net recharge and changes in pumping When compared to the volume of water pumped out of the system the effect of this change in net recharge is negligible The groundwater level monitoring network used to construct the 2007 middle Claiborne aquifer potentiometric surface was used as an example case to demonstrate statistical technique and to evaluate the importance of individual groundwater level observations To calculate the importance of each water level observation to a prediction predictions were specified as water level altitudes near the end of the dry scenario simulation These predictions were located near the center of cones of depression Many of the observations that have a high importance are in close proximity to stressed areas of the aquifer

Groundwater Availability of the Mississippi Embayment U.S. Department of the Interior, 2014-03-04 The study described in this report initiated by the U S Geological Survey in 2006 was designed to evaluate available fresh groundwater reserves within the Mississippi embayment South Central United States as an area within a broader national assessment The goals of the national assessment are to document effects of human activities on water levels and groundwater storage explore climate variability effects on the regional water budget and evaluate the adequacy of data networks at a regional scale The Mississippi embayment was chosen as a study area in the national assessment because of the substantial dependency on groundwater for agriculture and municipal needs *The Mississippi*

Embayment Regional Aquifer Study (Meras) U.S. Department of the Interior, 2014-03-04 Fresh groundwater in the Mississippi embayment can be found in alternating formations of sand silt and clay The uppermost of these formations is the Mississippi River Valley alluvial aquifer alluvial aquifer which can provide well yields of 300 to 2 000 gal min The alluvial aquifer exists at land surface and covers much of the embayment area within the Mississippi Alluvial Plain **U.S. Geological Survey Professional Paper** ,1998 Hydrogeology and Ground-water Flow in the Memphis and Fort Pillow Aquifers in the Memphis Area, Tennessee J. V. Brahana, Robert E. Broshears, 2001 Climate Change Effects on Groundwater Resources Holger Treidel, Jose Luis Martin-Bordes, Jason J. Gurdak, 2011-12-02 Climate change is expected to modify the hydrological cycle and affect freshwater resources Groundwater is a critical source of fresh drinking water for almost half of the worlds population and it also supplies irrigated agriculture Groundwater is also important in sustaining streams lakes wetlands and associated ecosystems But despite this **Breakfast Cereals and How They Are Made** Alicia A. Perdon, Sylvia L. Schonauer, Kaisa Poutanen, 2020-01-09 Breakfast Cereals and How They Are Made Raw Materials Processing and Production Third Edition covers the transformation of a cereal grain across the supply chain with oversight of the entire lifecycle from ingredient to finished product The book provides essential Information for food product developers on the effect of ingredients and process conditions on breakfast cereal quality All aspects of the processing of cereals grains into finished products is covered from batching and cooking toasting and tempering coating the inclusion of additional ingredients and packaging information In addition the book covers the chemistry and economics of cereal crops Essential reading for all product developers working in the cereal industry this book will also be of interest to academic researchers and postgraduate students in both cereal science and food processing Provides an up to date end to end overview of the production process of cereal products Edited by active cereals researchers working in industry with experts from both academia and industry supplying content Includes essential information on both ingredients and processes in the production of breakfast cereals Discusses materials cooking and packaging Includes nutrition quality and safety *Quaternary Aquifers in the Mississippi Embayment* Ernest H. Boswell, Elliott Morse Cushing, R. L. Hosman, 1968 A general description of the availability of the chemical quality of ground water from the Quaternary aquifers in the Mississippi embayment America's Water Crises David E. McNabb, Carl R. Swenson, 2023-05-13 This book is focused exclusively on water problems in the 48 U S states The authors provide an accessible overview of the work of many federal state and academic researchers and water system administrators whose investigations have focused on the state of water and the water crisis now accelerating in the United States David McNabb and Carl Swenson seek to bring to a wider audience some of the current research findings and data on the perilous state of the United States surface and groundwater resources during this time of climate change and the extreme drought taking place in many sections of the nation Descriptions of the water resource systems are based on research and the subsequent findings published by water scientists in the United States Geological Survey the Environmental

Protection Agency the U S Corps of Engineers and water related agencies of the Departments of Agriculture and of the Interior and state and local water management agencies **Interior, Environment, and Related Agencies Appropriations for 2011, Part 1B, 111-2 Hearings** ,2010 **Interior, Environment, and Related Agencies Appropriations for 2013: Justification of the budget estimates: NPS; USGS** United States. Congress. House. Committee on Appropriations. Subcommittee on Interior, Environment, and Related Agencies,2012 *Ground-water Flow in the Gulf Coast Aquifer Systems, South Central United States* Alex K. Williamson,Hayes F. Grubb,Jonathan S. Weiss,1990

Interior, Environment, and Related Agencies Appropriations for 2011 United States. Congress. House. Committee on Appropriations. Subcommittee on Interior, Environment, and Related Agencies,2010 **Interior, Environment, and Related Agencies Appropriations for 2012** United States. Congress. House. Committee on Appropriations. Subcommittee on Interior, Environment, and Related Agencies,2011 Selected Water Resources Abstracts ,1991 *Water-resources Investigations Report* ,2001 Estimated Use of Water in the United States in 1980 Wayne B. Solley,Edith B. Chase,1983

Regional Aquifer-System Analysis Program of the U.S. Geological Survey, Summary of Projects, 1978-84 Ren Jen Sun,1986 U.S. Geological Survey Circular ,1984 **COGEOMAP** Juergen Reinhardt,Wayne B. Solley,Charles F. Merk,David MacArthur Miller,Robert R. Pierce,1987

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Groundwater Availability Of The Mississippi Embayment**

In a global inundated with monitors and the cacophony of quick conversation, the profound power and mental resonance of verbal artistry frequently disappear in to obscurity, eclipsed by the constant assault of sound and distractions. However, nestled within the musical pages of **Groundwater Availability Of The Mississippi Embayment**, a charming work of fictional brilliance that pulses with raw feelings, lies an memorable trip waiting to be embarked upon. Composed with a virtuoso wordsmith, that mesmerizing opus guides readers on an emotional odyssey, softly exposing the latent possible and profound impact embedded within the complicated internet of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is main themes, dissect its charming writing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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