

~~Strikethrough print~~ represents text which has been deleted.

Bold and italicized print represents text which has been added or modified.

Resolution Mississippi River Alluvial Aquifer Water Resources, Research, and Education Center

~~Since 1951,~~ **For 70 years,** Delta Council has been a strong proponent of science-driven research related to the groundwater **irrigation** resources of the Mississippi Delta. It was at that time that the US Geological Survey, at the request and with the necessary **local** cost sharing ~~provided~~ **generated** by Delta Council, that groundwater studies commenced in the region in order to learn more about the ~~proliferate~~ recharge capabilities and interactions among the various groundwater aquifers including, but not limited to the Mississippi River Alluvial Aquifer (MRVA).

In more recent decades, with the rapid expansion of irrigated crop acreage ~~in the Mississippi Delta~~ nearing 1.5-2.0 million acres, Delta Council, along with federal and State resource agencies including the Mississippi Department of Environmental Quality, the Mississippi Soil and Water Conservation Commission, the U.S. Geological Survey, the Mississippi Farm Bureau Federation, the YMD Joint Water Management District, NRCS-USDA, the Corps of Engineers, and Delta F.A.R.M., have jointly embarked on aggressive efforts to analyze groundwater **challenges facing the Mississippi Delta** ~~withdrawals and recharge capabilities.~~ **In this regard, the group of These** resource agencies have focused on the study of non-regulatory approaches and alternatives aimed at meeting water demand without sacrificing profitable crop yields, while achieving ~~water~~ **groundwater recharge/withdrawal** balance.

Delta Council ~~views~~ **has viewed** that one of the next major steps which should be taken in order to advance non-regulatory approaches to groundwater balance in the Mississippi Delta, was to establish a joint initiative between USDA-ARS and Mississippi State University at Stoneville. The focus of this initiative is on the development of new technologies ~~and the advancement/refinement of~~ **and technology transfer to advance and refine** existing ~~and new~~ technology for meeting the challenge of water balance. Specifically, state and federal research ~~and extension~~ specialists from MSU-Division of Agriculture and USDA-ARS have identified the fields of agronomy, soil physics, economics, engineering, hydrology, ~~and a host of other scientific disciplines~~ which would provide a critical mass of ~~scientific~~ **research and extension** support for meeting the challenges ahead. The focus of this research should emphasize efforts to minimize and avoid regulatory burdens that could foreseeably add substantial costs and yield losses in productivity that affect the profit potential of Delta agriculture. ~~In this regard, Delta Council will work with the Mississippi Legislature, the Mississippi Congressional Delegation and all Executive Branch agencies of state, federal, and local government to bring this center to full maturity.~~

Delta Council will coordinate with representatives of the member organizations associated with the Mississippi **Department of Environmental Quality's** Delta Sustainable Water Resources Task Force (U.S. Geological Survey, Agricultural Research Service-USDA, Corps of Engineers, Natural Resources Conservation Service-USDA, Mississippi Department of Environmental Quality, Yazoo-Mississippi Delta Joint Water Management District, Mississippi Soil and Water Conservation Commission, Mississippi Farm Bureau Federation, Delta F.A.R.M, and Delta Council) in order to ~~refine, expand, modify and/or improve~~ **maintain and improve** the deliverables that should be achieved through this Alluvial Aquifer Research and Education Center.

**Proposed Position Areas: Research and Education
(As Proposed Jointly by ARS-USDA and DREC-MSU)**

Mississippi State University

<u>New Positions Established at Water Center:</u>	<u>Status</u>
Agronomist	<i>Conducting Interviews</i>
Agronomist/Soil Scientist	<i>Not yet advertised</i>
Natural Resource Economist	<i>Dr. Nico Quintana – Start Date (January 1, 2019)</i>
Irrigation Efficiency and Equipment Engineer	<i>Committee is conducting interviews</i>

<u>Existing Positions Merged with Water Center:</u>	
<i>Agronomist-Extension Irrigation Specialist (former Krutz position)</i>	<i>Conducting Interviews</i>
Agricultural Engineer	<i>Lyle Pringle</i>

Support personnel will include 8 research support staff, an administrative assistant, and a building maintenance technician.

Non-salary expenses will include field expenses, repair/maintenance of equipment, capital purchases, and operational support.

Annual Funding ***\$2 million***

USDA

<u>New Positions Established at Water Center:</u>	
Modeling Engineer	<i>Received Approval to Begin Recruitment</i>
Hydrologist	<i>Received Approval to Begin Recruitment</i>
Soil Scientist	<i>Received Approval to Begin Recruitment</i>

<u>Established Existing Positions Merged with Water Center:</u>	
Ag Technology Engineer	<i>Received Approval to Begin Recruitment</i>
Efficiency Engineer	<i>Received Approval to Begin Recruitment</i>
Plant Physiologist	<i>Received Approval to Begin Recruitment</i>

Annual Funding ***\$2 million***

Total Funding **\$4 million**

**Adopted by: Delta Council Board of Directors
June 1, 2018**

