US EPA ARCHIVE DOCUMENT

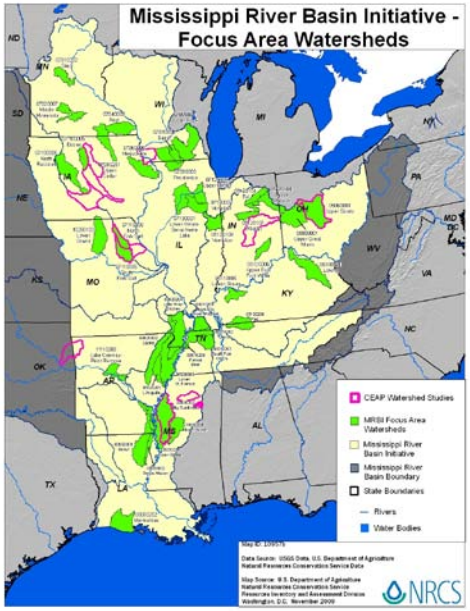
Water Quality collaboration towards holistic ecosystem improvement in the Gulf of Mexico

plantandsoil.unl.edu

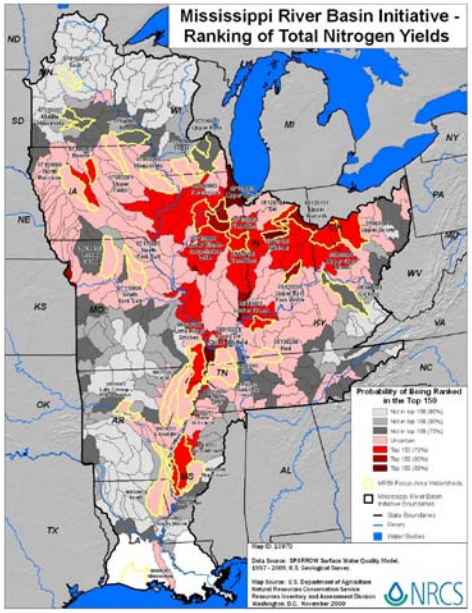
Dr. Robert Kröger

Mississippi State University

Mississippi River Basin. From US Environmental Protection Agency.



MRBI-NRCS

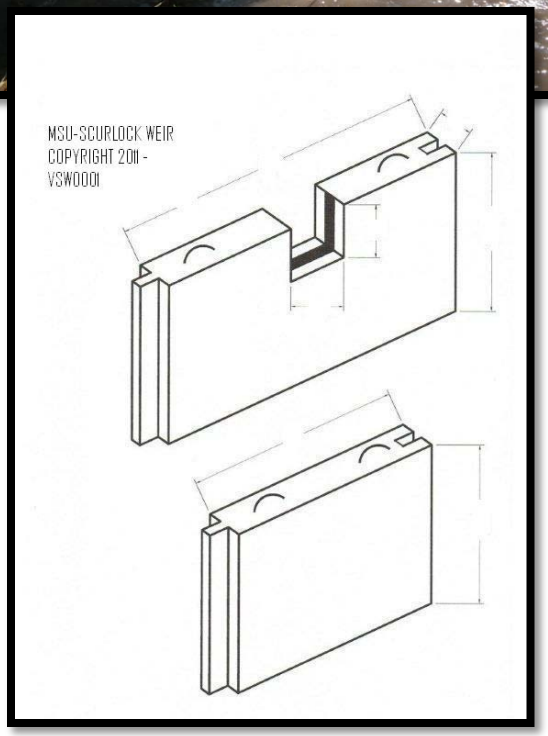


MRBI-NRCS

Water Quality

Water Quality Nutrient Solution (s)

Three strategies for reducing nutrient pollution:



www.precisionpays.com

Mark McConnell, WFA

Innovation

Spatial Scale of Involvement

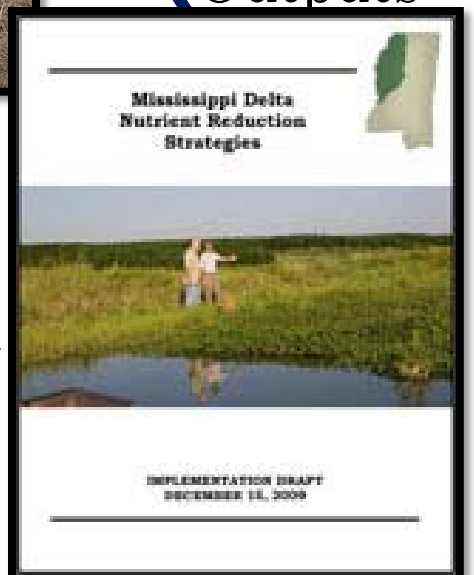
Farmers

Mayor of Rural City

Farmer to Farmer Exchange

State agencies collaboration

Consensus Driven Outputs



Collaboration (Within State)

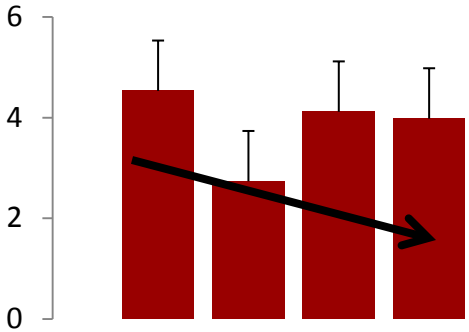
FARMERS ADVOCATING RESOURCE MANAGEMENT

DELTA F.A.R.M.

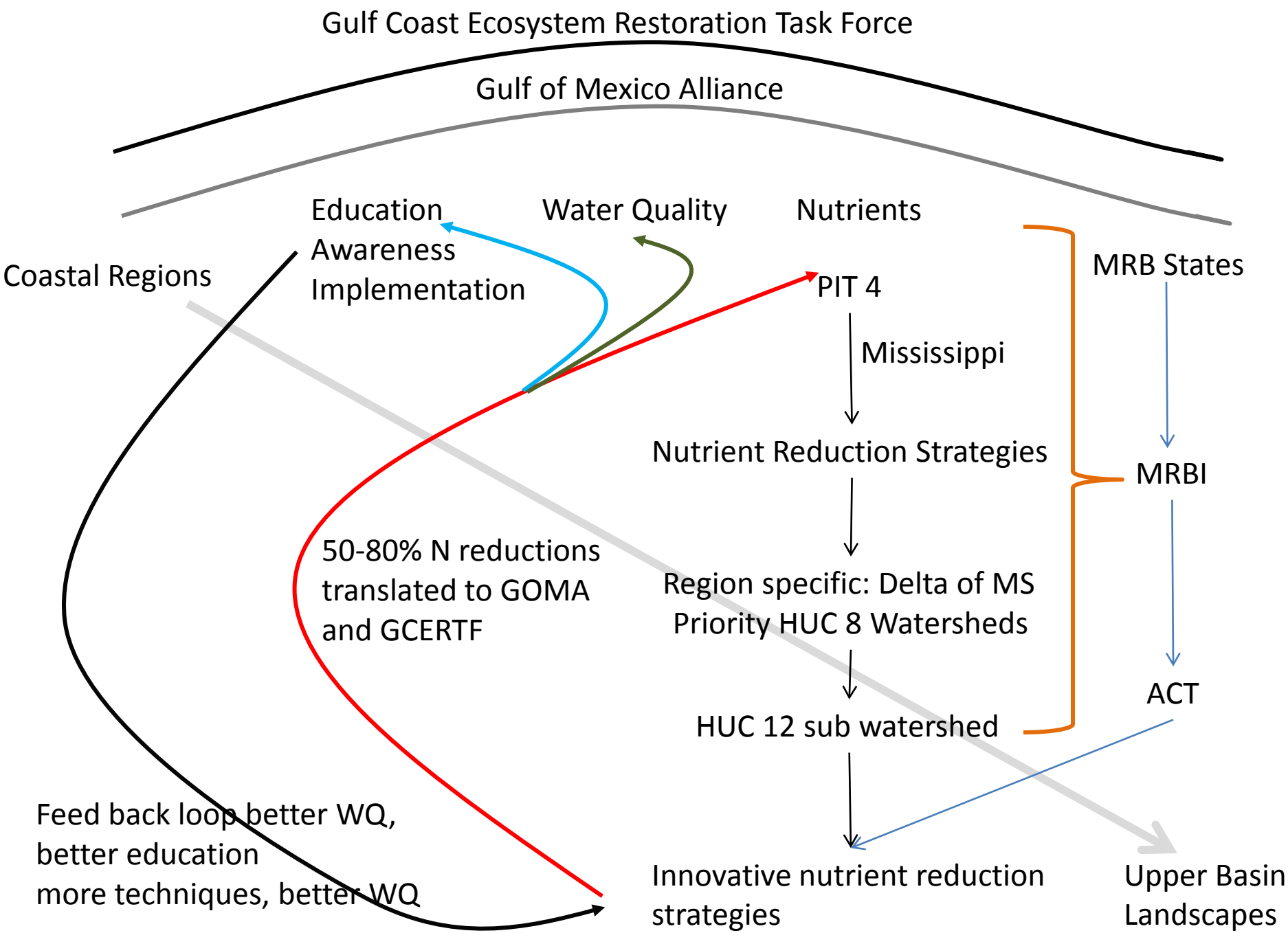
STATE

Common Water Quality Purpose

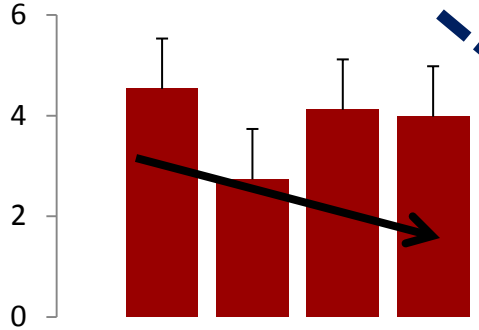
Collaboration (Tieing it in)



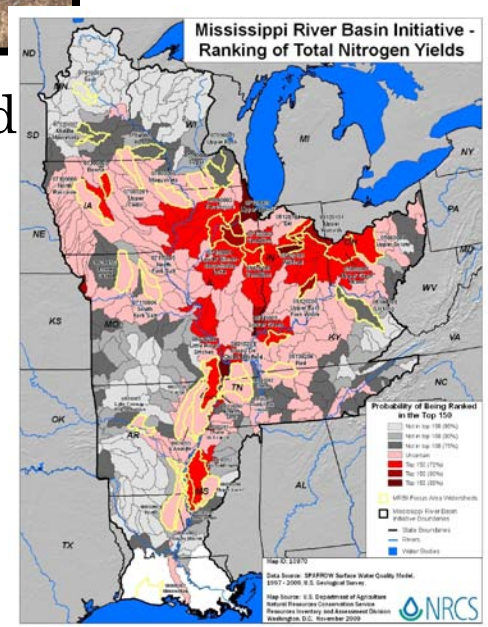
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY


Gulf Coast Ecosystem Restoration Task Force
Gulf of Mexico Alliance
Education
Awareness
Implementation
Water Quality
Nutrients
Coastal Regions
PIT 4
MRB States
Mississippi
Nutrient Reduction Strategies
MRBI
50-80% N reductions
translated to GOMA
and GCERTF
Region specific: Delta of MS
Priority HUC 8 Watersheds
ACT
HUC 12 sub watershed
Feed back loop better WQ,
better education
more techniques, better WQ
Innovative nutrient reduction
strategies
Upper Basin
Landscapes

Local Sub-watershed reductions



Temporal Lag Effect??



MRBI-NRCS

Regional HUC 8 reductions

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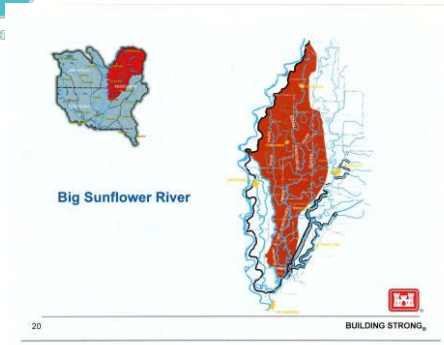
Gulf of Mexico Improvements

Holistic Improvement to Water Quality

Mississippi River Basin. From US Environmental Protection Agency.



Tiered Collaboration Framework

Holistic Water Quality Improvement

Innovative Nutrient Management Strategies

Key Points