

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives								Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBC	WLEB	HYDRO	DR	FRP	NPC	ENER	EU											
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBC)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)											
Lower Maumee River Watershed	Combined Sewer Overflow	Develop and implement the LTCP- CSO/SSO elimination for Toledo.	H			X						X										\$220,400,000	City of Toledo	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH	Note OEPA list of Plans costs estimated at 346,210,000
Blanchard River Watershed	Flood Control	Complete flood risk management measures for reducing flooding in Blanchard Watershed.	H																			\$160,000,000	USACE	Findlay, Ottawa, Hancock County, Putnam County, ODNR, Northwest Flood Mitigation Partnership	WRDA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	Includes both Ottawa and Findlay flood damage reduction measures.
St. Marys River Watershed	Combined Sewer Overflow	CSO-LTCP Implementation - St. Mary Watershed Portion.	H			X						X										\$92,050,628	Ft. Wayne	USEPA, OEPA	USEPA	Water Quality	2009-2029	IN	Estimated portion of LTCP within Ft. Wayne, determined by subtracting out St. Joseph projects and then separating remaining cost 50/50 between the two remaining watersheds
Upper Maumee River Watershed	Combined Sewer Overflow	Implement CSO-LTCP.	H			X		X														\$92,050,628	Ft. Wayne	USEPA		Water Quality	2009-2029	IN	Developed by subtracting known St. Joseph River Watershed CSO projects, then spreading 50/50 into remaining two watersheds.
Lower Maumee River Watershed	Combined Sewer Overflow	Develop and implement the LTCP- CSO elimination for Napoleon.	H			X						X										\$90,000,000	Napoleon	USEPA, OEPA	USEPA	Water Quality	2008-15 yr	OH	Originally \$9M per OEPA list of approved plans and costs but updated from Sanitary Sewage Infrastructure Report February 2009..
Lower Maumee River Watershed	Combined Sewer Overflow	Implement the LTCP- CSO/SSO elimination for Defiance.	H			X						X										\$60,000,000	Defiance	USEPA, OEPA	USEPA	Water Quality	2008-15 yr	OH	From Sanitary Sewage Infrastructure Report February 2009
Ottawa River Watershed	Combined Sewer Overflow	Ottawa River South Storage Facility.	H			X						X										\$56,300,000	City of Toledo			Water Quality	2012	OH	
St. Marys River Watershed	Flood Control	Construct reservoir upstream of Decatur and Fort Wayne to alleviate flooding.	M																			\$50,000,000	Maumee River Basin Commission	USACE, Decatur, Fort Wayne	USACE	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2014+	IN	Confirm cost estimate!!
Auglaize River Watershed	Combined Sewer Overflow	Lima - LTCP Implementation.	H			X						X										\$45,500,000	Lima	USEPA, OEPA		Water Quality	2010-2020	OH	From MRPLG Web site
Ottawa River Watershed	Dredging	Dredging of contaminated sediments with treatment or upland disposal.	H																			\$43,000,000	USEPA-GLNPO	City of Toledo, PRP's	Great Lakes Lagacy Act	Water Quality	2009-2012	OH	Includes \$20M Federal and \$20M cost share, added \$3M per OEPA, in progress.
St. Joseph River Watershed	Sanitary Sewer Overflow	SSO and MS4 Mandates, infrastructure.	H			X						X										\$33,600,000	Ft. Wayne	INDEP		Water Quality	2010-2020	IN	From St. Joseph River Watershed Initiative
Auglaize River Watershed	Combined Sewer Overflow	CSO LTCP Implementation.	H			X						X										\$30,200,000	Wapakoneta	USEPA, OEPA		Water Quality	2009-2014	OH	From State stimulus list
Auglaize River Watershed	Water Supply	Lima - construction of an upground reservoir, pump station, and force main.	H									X										\$30,000,000	Lima	ODNR, OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2011	OH	From State stimulus list
Blanchard River Watershed	Water Supply	WTP system regionalization program.	H									X										\$29,000,000	Ottawa	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2020	OH	From State stimulus list
Portage River Watershed	Combined Sewer Overflow	CSO.	H			X						X										\$28,000,000	Fostoria	USEPA, OEPA	USEPA	Water Quality	2009-2029	OH	Community not entirely in Portage, portion outside based on OEPA Map, assumed 40% of program in watershed.
Auglaize River Watershed	Wastewater	WWTP improvements.	H			X																\$27,651,100	Columbus Grove		OEPA	Water Quality	2010	OH	From State stimulus list
Blanchard River Watershed	Combined Sewer Overflow	LTCP- CSO/SSO elimination.	H			X						X										\$27,100,000	Findlay	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH	
St. Joseph River Watershed	Sanitary Sewer Overflow	SSO & NPDES Phase II Implementation to reduce inflow and infiltration.	H			X		X														\$22,000,000	Allen County	IDEM		Water Quality	2010-2014	IN	Per Sharon Hall, Ft. Wayne provided this estimate and assumed to be only for St. Joseph.
St. Joseph River Watershed	Combined Sewer Overflow	Satellite storage at St. Joseph River CSOs.	H			X						X										\$21,914,750	Ft. Wayne			Water Quality	2010-2030	IN	From St. Joseph River Watershed Initiative
Ottawa River Watershed	Flood Control	Hill, Haefner, Tift, Heldman, Eisenbaum Ditch Improvements/Detention.	M			X																\$20,000,000	Lucas County			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
Auglaize River Watershed	Sanitary Sewer Overflow	Shawnee II, Wastewater Treatment Plant Expansion.	H			X																\$19,600,000	Lima	OEPA		Water Quality	2010-2014	OH	From State stimulus list
Maumee Bay	Dredging	Maintenance Dredging, Primary and Backlog.	H																			\$19,530,000	USACE			Commercial and Recreational Navigation	2009-2011	OH	See also Lower Maumee Assessment for costs and time frame.
Lower Maumee River Watershed	Combined Sewer Overflow	Develop and implement the LTCP- CSO elimination for Perrysburg.	H			X						X										\$18,300,000	Perrysburg	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH	From OEPA list of approved plans and costs.
St. Joseph River Watershed	Combined Sewer Overflow	Construct CSO Facility for the St. Joseph River.	M			X						X										\$18,000,000	Ft. Wayne			Water Quality	2010-2030	IN	From St. Joseph River Watershed Initiative
St. Marys River Watershed	Flood Mitigation	Acquire all residential structures in floodplain.	H																			\$16,600,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	Preliminary estimate by MRBC
Lower Maumee River Watershed	Dredging	Develop additional dredged material disposal capacity for Toledo Harbor via innovative CDF management including upland beneficial use.	M																			\$16,000,000	OEPA	Toledo-Lucas County Port Authority		Commercial and Recreational Navigation	2010	OH	Federal funds for mine reclamation pilot project.
Portage River Watershed	Combined Sewer Overflow	CSO reduction/elimination.	H			X						X										\$15,173,319	North Baltimore	USEPA, OEPA		Water Quality	2010	OH	From Sanitary Sewage Infrastructure Report February 2009
Ottawa River Watershed	Combined Sewer Overflow	Lockwood/Devilbiss Sewer Separation.	H			X						X										\$15,100,000	City of Toledo			Water Quality	2011	OH	
Lower Maumee River Watershed	Combined Sewer Overflow	Develop and implement the LTCP- CSO elimination for Wauseon.	H			X						X										\$15,000,000	Wauseon	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH	From Sanitary Sewage Infrastructure Report February 2009. \$10M higher than previous number.
Auglaize River Watershed	Sanitary Sewer Upgrades	Sewer project to eliminate septic systems.	M			X						X										\$15,000,000	Park/Five Span Bridge Area	OEPA	OEPA	Water Quality	2009-2014	OH	From Sanitary Sewerage Infrastructure Feb. 2009.

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				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU																
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)																
Ottawa River Watershed	Flood Control	Upgrade to Point Place Flood Control Project.	H																						\$15,000,000	City of Toledo			Water Quality	2014	OH			
St. Marys River Watershed	Combined Sewer Overflow	Eliminate CSOs.	H			X																				\$14,000,000	Berne	USEPA, OEPA	USEPA	Water Quality	2009-2029	IN	Mostly in St. Marys Watershed	
Auglaize River Watershed	Combined Sewer Overflow	Implement LTCP for Delphos.	H			X																				\$13,956,000	Delphos	USEPA, OEPA		Water Quality	2010-2020	OH		
St. Joseph River Watershed	Combined Sewer Overflow	CSO-LTCP, SSO, MS4 Mandates.	H			X																				\$13,900,696	Auburn	USEPA		Water Quality	2010-2020	IN	From St. Joseph River Watershed Initiative	
St. Joseph River Watershed	Combined Sewer Overflow	Eliminate CSOs.	H			X																				\$13,608,116	Dekalb	USEPA, OEPA	USEPA	Water Quality	2010-2020	IN	From Sanitary Sewage Infrastructure Feb. 2009	
Blanchard River Watershed	Flood Control	Implement Sec. 205 flood damage reduction measures in Ottawa and Findlay.	H																							\$12,500,000	USACE	Northwest Ohio Flood Mitigation Partnership, ODNR, Putnam County, Hancock County, Findlay, Ottawa	USACE	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2012	OH	5,000,000 federal spending cap plus 25% local match. Also right of way paid for by locals.	
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Acquire high quality habitats of natural communities representative of pre-settlement Northeast Indiana. Purchase up to 3000 acres of privately owned natural areas.	H			X																				\$12,000,000	IDNR	St. Joseph River Watershed Initiative		Fish and Wildlife Habitat	2010-2010	IN	St. Joseph Watershed Assessment.	
Portage River Watershed	Wastewater	Treatment plant upgrade Phase II.	H			X																				\$11,900,000	Port Clinton			Water Quality	2010-2015	OH		
Lower Maumee River Watershed	Sanitary Sewer Upgrades	Eliminate Septic Systems, upgrade WWTP.	M			X																				\$11,826,000	Perrysburg	OEPA	OEPA	Water Quality	2008-2013	OH	From Sanitary Sewage Infrastructure Report February 2009. Actually higher but subtracted amount in report from number provided by OEPA list of approved plans.	
Ottawa River Watershed	Sanitary Sewer Upgrades	Eisen, Heldman, Deline Peterman.	M			X																				\$11,400,000	City of Toledo			Water Quality	2010	OH		
Lower Maumee River Watershed	Water Supply	WTP Expansion, reverse osmosis.	H																							\$11,000,000	Bowling Green	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH		
Lower Maumee River Watershed	Wastewater	WWTP Improvements, Phase 3.	H			X																				\$11,000,000	Perrysburg	OEPA		Water Quality	2009-2011	OH	From State stimulus list, duplication, see CSO listing for Perrysburg?	
Portage River Watershed	Recreation	New Marina and safe harbor for transient boaters.	H																							\$10,700,000	Port Clinton			Resource-Based Recreation	2009	OH	Confirm location, in Portage Watershed?	
Portage River Watershed	Combined Sewer Overflow	Implement LTCP.	H			X																				\$10,500,000	Port Clinton	OEPA		Water Quality	2009	OH	Outfalls in Portage River Watershed? From Sanitary Sewage Infrastructure Report February 2009.	
Lower Maumee River Watershed	Wetland Protection/ Restoration	Implement PCS Wetland & Riparian Inventory and Restoration Plans for Swan Creek.	H			X	X	X																		\$10,000,000	Partners For Clean Streams (PCS)	Metroparks of Greater Toledo Area		Water Quality	2010-2014	OH	Provided by PCS, Kris Patterson, 73009	
Portage River Watershed	Combined Sewer Overflow	Combined sewer separation projects, trunk sewer replacement on Broadway and Water Streets to provide additional capacity for separation projects.	H			X																				\$9,804,000	Village of North Baltimore	USEPA, OEPA	USEPA	Water Quality	2010	OH		
Lower Maumee River Watershed	Dredging	Ensure uninterrupted maintenance dredging of federal commercial navigation channels at Maumee River and Maumee Bay.	H																							\$9,704,000	USACE	Toledo-Lucas County Port Authority, City of Toledo		Commercial and Recreational Navigation	2010-2014	OH	See USACE April 2009 Fact Sheet Maumee Bay	
Lower Maumee River Watershed	Flood Control	Develop a program to decrease peak flows in county ditches flowing to the City of Toledo.	H																							\$9,100,000	Lucas County			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2020	OH	See Ohio Stimulus List March 2009, includes 2 projects, sounds similar to this but much lower cost.	
Blanchard River Watershed	Water Supply	Increase water reservoir storage.	H																							\$9,000,000	Ottawa	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list	
St. Marys River Watershed	Sanitary Sewer Overflow	SSO & NPDES Phase II Implementation.	M			X		X																		\$8,595,419	Allen County	IDEM		Water Quality	2010-2014	IN	Originally amount @22M but assumed only 75% in Maumee basin, then assumed 50% in St. Joseph, 50% in St. Marys, none in Upper Maumee.	
Auglaize River Watershed	Combined Sewer Overflow	LTCP- CSO elimination.	H			X																				\$8,561,823	Columbus Grove	USEPA, OEPA	USEPA	Water Quality	2008-2028	OH	Note: Projects listed in stimulus list exceeded original cost, included higher cost.	
Auglaize River Watershed	Water Supply	New Water Treatment Plant.	H																							\$8,511,885	Paulding	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2013	OH	From State stimulus list	
Tiffin River Watershed	Combined Sewer Overflow	CSO LTCP improvements: sewer separation and wastewater treatment plant improvements.	H			X																				\$8,250,000	Fayette	USEPA, OEPA		Water Quality	2011-2014	OH	From Sanitary Sewage Infrastructure Report February 2009	
Auglaize River Watershed	Water Supply	Water Treatment Plant.	H																							\$8,200,000	Wapakoneta	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2012	OH	From State stimulus list	
Auglaize River Watershed	Combined Sewer Overflow	Implement LTCP.	H			X																				\$8,000,000	Paulding	USEPA, OEPA		Water Quality	2010-2020	OH	Originally 7,634,000 From OEPA CSO Summary. Revised number from Sanitary Sewage Infrastructure Report February 2009	
Auglaize River Watershed	Combined Sewer Overflow	Implement LTCP for Van Wert, OH.	M			X																				\$8,000,000	Van Wert	USEPA, OEPA		Water Quality	2010-2014	OH		
Ottawa River Watershed	Wetland Protection/ Restoration	Implement PCS habitat creation/restoration, wetland creation/restoration, bank stabilization in Ottawa River/Ten Mile Creek watershed.	H			X	X	X																			\$8,000,000	Partners For Clean Streams (PCS)	Metroparks of Greater Toledo Area		Water Quality	2010-2014	OH	includes Camp Miakonda and MetroParks priority GLRI projects in AOC, including acquisition of some parcels, Provided by PCS, Kris Patterson, 73009
Ottawa River Watershed	BMPs/ Green Infrastructure	Silver Creek Master Plan Recommendations.	M			X																				\$8,000,000	City of Toledo			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	Green infrastructure projects.	

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				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU													
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)													
Blanchard River Watershed	Water Supply	WTP improvements.	H																				\$8,000,000	Ottawa	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	From State stimulus list	
Portage River Watershed	Sanitary Sewer Upgrades	Phased village-wide sewer separation.	H			X																		\$7,700,000	Village of Gibsonburg			Water Quality	2010-2015	OH	
Auglaize River Watershed	Sanitary Sewer Overflow	American-Bath Wastewater Treatment Plant Expansion.	H			X																		\$7,600,000	Lima	OEPA		Water Quality	2010-2011	OH	From State stimulus list
Auglaize River Watershed	Recreation	Comprehensive bike route consisting of trails and paths to link existing trails, Lima.	H								X													\$7,500,000	Lima	ODNR		Resource-Based Recreation	2009	OH	From State stimulus list
Auglaize River Watershed	Wastewater	Auglaize River Sewer Project.	H			X																		\$7,402,416	Defiance County Commissioners	OEPA		Water Quality	2010-2014	OH	From State stimulus list
Lower Maumee River Watershed	Wastewater	WWTP Improvements.	H			X																		\$7,402,416	Defiance	OEPA		Water Quality	2010-2014	OH	From State stimulus list
Portage River Watershed	Combined Sewer Overflow	Develop and implement the LTCP- CSO elimination for Bowling Green.	H			X					X													\$7,299,110	Bowling Green	USEPA, OEPA	USEPA	Water Quality	2008-2028	OH	Total is 11,229,400, split 65/35, with 65% assumed in the Lower Maumee River Watershed, remainder in Portage Watershed
St. Joseph River Watershed	Combined Sewer Overflow	Construct disinfection technologies for satellite CSO Facility.	M			X					X													\$7,200,000	Ft. Wayne			Water Quality	2010-2030	IN	From St. Joseph River Watershed Initiative
Blanchard River Watershed	Combined Sewer Overflow	LTCP-CSO elimination.	H			X					X													\$7,200,000	Forest	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH	
Lower Maumee River Watershed	Combined Sewer Overflow	Develop and implement the LTCP- CSO elimination for Swanton.	H			X					X													\$7,000,000	Swanton	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH	From Sanitary Sewage Infrastructure Report February 2009.
Tiffin River Watershed	Conservation	Increase Michigan's Farmland and Open Space Preservation Program.	M		X						X							X						\$7,000,000	Michigan			Fish and Wildlife Habitat	2009-2014	MI	
Auglaize River Watershed	Water Supply	New 2.5 MGD Water Treatment System.	H								X													\$7,000,000	Wapakoneta	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list
Tiffin River Watershed	Nutrient Management	Program implementation and demonstration on new conservation practices.	H			X		X					X											\$7,000,000	USDA	SWCD		Water Quality	2010-2014	MI	
Ottawa River Watershed	Sanitary Sewer Upgrades	Detroit, E. Bowen, Barnum, Mayer, Dennis.	M			X																		\$6,900,000	City of Toledo			Water Quality	2010	OH	
Ottawa River Watershed	Combined Sewer Overflow	Monroe/Ayres SSES.	H			X					X													\$6,900,000	City of Toledo			Water Quality	2012	OH	
Lower Maumee River Watershed	Wastewater	Wastewater system, Highland Township.	H			X																		\$6,885,891	Maumee Valley Planning Organization	OEPA		Water Quality	2009-2011	OH	From State stimulus list
St. Joseph River Watershed	Combined Sewer Overflow	CSO-LTCP, SSO, MS4 Mandates.	H			X																		\$6,500,000	Garrett	USEPA		Water Quality	2010-2020	IN	From St. Joseph River Watershed Initiative
Lower Maumee River Watershed	Combined Sewer Overflow	Develop and implement the LTCP- CSO elimination for Delta.	H			X					X													\$6,500,000	Delta	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH	
Auglaize River Watershed	Sanitary Sewer Overflow	Shawnee No. II Sewer Sub-District Trunk Sewer Replacement.	H			X																		\$6,250,000	Lima	OEPA		Water Quality	2010-2011	OH	From State stimulus list
Upper Maumee River Watershed	Flood Mitigation	Acquire all residential structures in floodplain.	H															X						\$6,170,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	
Blanchard River Watershed	Combined Sewer Overflow	LTCP-CSO elimination.	H			X					X													\$6,100,000	Dunkirk	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH	From State stimulus list, updated cost figures from 2,000,000
Ottawa River Watershed	Stream/ Riparian Restoration	Ottawa River/Ten Mile Creek Reconstruction (12.4 miles) Construction.	H		X	X																		\$6,000,000	Lucas County			Fish and Wildlife Habitat	2011	OH	
Lower Maumee River Watershed	Water Supply	Water treatment plant upgrade.	H								X													\$6,000,000	McClure	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	From State stimulus list
Auglaize River Watershed	Nutrient Management	Support for cover crops, precision & traditional nutrient management planning, crop rotations - BMP.	H			X		X																\$5,855,166	NRCS	SWCD's , ODNR, ISDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
Ottawa River Watershed	Dredging	Dredge five foot deep access channel from Toledo Harbor shipping channel to the mouth of the Ottawa River then continuing to the Summit Street Bridge.	M																X					5,706,000	Toledo-Lucas County Port Authority	USACE, City of Toledo,	USACE	Commercial and Recreational Navigation	2011-2014	OH	Will need federal and non-federal cost share funds to proceed. (Additional four foot deep access channels in Halfway Creek, and Hooper Run.) Updated cost estimate per TMACOG, It requires \$1,950,000 in nonfederal funds and future federal funding through the Corps of Engineers of \$3,275,000
St. Marys River Watershed	Combined Sewer Overflow	Eliminate CSOs.	H			X					X													\$5,625,000	Decatur	USEPA, OEPA	USEPA	Water Quality	2009-2029	IN	From Sanitary Sewage Infrastructure Report February 2009
Portage River Watershed	Combined Sewer Overflow	CSO.	M			X					X													\$5,607,858	Woodville	USEPA, OEPA	USEPA	Water Quality	2009-2013	OH	From Sanitary Sewage Infrastructure Report February 2009.
Portage River Watershed	Wastewater	Sewers and WWTP.	H			X																		\$5,500,000	Village of Rising Sun			Water Quality	2010-2015	OH	
Lower Maumee River Watershed	Combined Sewer Overflow	Develop and implement the LTCP- CSO elimination for Leipsic.	H			X					X													\$5,300,000	Leipsic	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH	
Auglaize River Watershed	Nutrient Management	Provide erosion control structures & grass waterways - BMP.	H			X		X																\$5,015,330	NRCS	SWCD's , ODNR, ISDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis

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St. Joseph River Watershed	Habitat Restoration and/ or Protection	Acquire 300 acres of nature preserves to link existing nature preserves along Cedar Creek in the Lower Cedar Creek Region (5 year plan).	H		X	X							X	X					\$5,000,000	St. Joseph River Watershed Initiative			Fish and Wildlife Habitat	2010-2014	IN	From St. Joseph River Watershed Initiative		
Auglaize River Watershed	Wastewater	Construct sewers in areas that are currently unsewered and discharging partially treated wastewater to storm drains or ditches. Replace failing HSTS where sewers can not be constructed.	M			X													\$5,000,000	OEPA	Local units of governments			Water Quality	2010-2014	OH		
Tiffin River Watershed	Recreation	Develop the Wabash Cannonball trail from Wauseon to the Fulton County Line to function for the Wabash Cannonball trail as well as the North Country Trail and develop a trail from Montpelier/ West Unity to Defiance which would create a loop trail for the Wabash Cannonball Trail System.	M									X							\$5,000,000	State, county, local and community agencies.			Resource-Based Recreation	2011-2014	OH	As most of the watershed's public park and open space lands are maintained and operated by numerous agencies, potential sponsors will vary depending on the site location and type of project. Potential entities could include, but are not limited to state, county, local and community agencies.		
Blanchard River Watershed	Flood Mitigation	Implement Hancock County Recreation Plan with an emphasis on projects that provide multi-objective benefits.	M										X						\$5,000,000	Hancock Park District			Resource-Based Recreation	2010-2014	OH	Rough Estimate, needs to be confirmed.		
St. Marys River Watershed	Brownfield Remediation	Improve hazardous waste cleanup programs by providing resources for cleanup; establishing a cleanup fund for sites which impact public health; establishing a grant/loan fund for local communities to access sites, perform cleanups and/or attract federal matching funds; and take full advantage of the Water Pollution Control loan fund.	M			X		X	X										\$5,000,000	OEPA	IDEM			Water quality	2009-2014	IN		
Tiffin River Watershed	Flood Control	Upgrade Stormwater collection in Williams County to alleviate flooding.	M										X						\$5,000,000	William County	County agencies			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	Need study to evaluate alternatives, \$ for study. Cost shown are very rough construction estimate based on broad assumptions. Priority action likely covers areas outside of watershed.	
Portage River Watershed	Wastewater	Construction of a sanitary collection system and WWTP.	M			X													\$4,799,999	Village of Rising Sun	NW Water and Sewer District			Water Quality	2008	OH		
Auglaize River Watershed	Water Supply	New water treatment plant and distribution system.	H									X							\$4,550,000	Ft. Jennings	OEPA			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	From State stimulus list	
Blanchard River Watershed	Flood Control	Implement Sec. 205 flood damage reduction measures in Ottawa and Findlay, local R/W.	H										X						\$4,500,000	Findlay	USACE	WRDA			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2012	OH	
Lower Maumee River Watershed	Stream Bank Erosion	Marina District River Stabilization and Erosion Control, this project includes stabilization of the banks of the Maumee River through a sheet pile wall, plus storm drainage and erosion control within the Marina District. All plans and construction drawings are complete. This project is ready for construction immediately.	M			X		X											\$4,500,000	City of Toledo	USACE, OEPA			Water Quality	2010-2011	OH	Ohio Stimulus List March 18, 2009	
Blanchard River Watershed	Water Supply	Vanlue water system including WTP, tank, and water lines to replace well system	H									X							\$4,500,000	Vanlue	OEPA	OEPA			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	From State stimulus list
St. Joseph River Watershed	Flood Control	Continue purchase and removal of structures from designated acquisition areas.	H										X						\$4,400,000	Maumee River Basin Commission	St. Joseph Watershed Initiative			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN		
Tiffin River Watershed	Combined Sewer Overflow	CSO Long term control plan – sewer separation and improvements.	M			X						X							\$4,300,000	Village of Fayette	USEPA, OEPA	USEPA			Water Quality	2010-2030	OH	20 year completion originally
Lower Maumee River Watershed	Wastewater	Malinta sanitary sewer project.	H			X													\$4,300,000	Napoleon	OEPA			Water Quality	2010-2014	OH	From State stimulus list	
Lower Maumee River Watershed	Wastewater	New wastewater collection and treatment system.	H			X													\$4,237,000	Malinta	OEPA			Water Quality	2010-2014	OH	From State stimulus list	
Portage River Watershed	Wastewater	WWTP replacement.	H			X													\$4,095,000	Elmore	OEPA	USEPA			Water Quality	2012	OH	
Lower Maumee River Watershed	Sanitary Sewer Upgrades	Construct sewer system to eliminate septic systems.	M			X						X							\$4,000,000	Ayersville	USEPA	USEPA			Water Quality	2010-2030	OH	From Sanitary Sewerage Infrastructure Feb. 2009, Defiance County
St. Marys River Watershed	Recreation	Expand and connect an already extensive trail system via planning and construction.	M									X							\$4,000,000	Park Districts	Counties			Resource-Based Recreation	2011-2014	OH	Rough estimate.	
Auglaize River Watershed	Wastewater	Lima - Sewer interceptor replacement, replacement of sewer interceptor	H			X													\$4,000,000	Lima	OEPA			Water Quality	2009	OH	From State stimulus list	
Portage River Watershed	Combined Sewer Overflow	LTCP –Phase II upgrades to retention basin for partial treatment and disinfection of overflow water, and sewer line from the west branch interceptor overflow point to the retention basin.	M			X						X							\$4,000,000	Village of Gibsonburg	USEPA, OEPA	USEPA			Water Quality	2010-2012	OH	
St. Joseph River Watershed	Wastewater	Remove, maintain, and repair 300 to 500 failing septic systems (20 year plan), Lower St. Joseph-Bear Creek.	M			X		X											\$4,000,000	St. Joseph River Watershed Initiative					Water Quality	2010-2030	IN	From St. Joseph River Watershed Initiative
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Restore and/ or protect 5,000 acres of floodplain wetlands and forest using private funding sources and federal conservation programs	M			X	X					X							\$4,000,000	The Nature Conservancy	St. Joseph River Watershed Initiative			Fish and Wildlife Habitat	2010-2014	IN	Joe Draper, TNC 3/19/09	
St. Joseph River Watershed	Wetland Protection/ Restoration	Restore and/ or protect 5,000 acres of upland wetlands and forest using private funding sources and federal conservation programs.	M			X	X					X							\$4,000,000	The Nature Conservancy	St. Joseph River Watershed Initiative, Ducks Unlimited			Fish and Wildlife Habitat	2010-2014	IN	Joe Draper, TNC 3/19/09	

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU										
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)										
Auglaize River Watershed	Wastewater	Upgrade all WWTP contributing to water quality issues.	M			X															\$4,000,000	OEPA	Local units of government		Water Quality	2012-2014	OH	
Auglaize River Watershed	Nutrient Management	Support residue management and conservation tillage - BMP.	H			X		X													\$3,973,193	NRCS	SWCD's , ODNR, ISDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
Portage River Watershed	Combined Sewer Overflow	CSO improvements for LTCP.	H			X				X											\$3,930,290	Bowling Green	USEPA, OEPA	USEPA	Water Quality	2008	OH	Total is 11,229,400, split 65/35, with 35% assumed in the Lower Maumee River Watershed, remainder in Portage Watershed
Ottawa River Watershed	Stormwater Management	E. Bowen Ditch.	M			X					X										\$3,900,000	City of Toledo			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
Portage River Watershed	Combined Sewer Overflow	CSOs, eliminate septic systems.	H			X				X											\$3,790,000	Oak Harbor	USEPA, OEPA	USEPA	Water Quality	2009-2029	OH	From Sanitary Sewage Infrastructure Report February 2009
WLEB	Watershed/ Community Planning	Create and help sustain new watershed groups where none currently exist comprised on decision makers and key stakeholders, support also for existing watershed groups.	H		X	X		X		X	X	X			X	X					\$3,750,000	ODNR	OEPA, NRCS, OSU Extension		Water Quality	2011-2014	WLEB	Create 5 watershed groups and 4 year annual support at (\$100,000 initially for hiring director and doing planning & 75000 annually for 4 years after = \$450,000 per group * 5 plus 5 existing groups support (Portage, Tiffin, Auglaize, St.
Lower Maumee River Watershed	Combined Sewer Overflow	Develop and implement the LTCP- CSO elimination for Deshler.	H			X				X											\$3,700,000	Deshler	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH	
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Purchase 1200 acres in Sand Barrens Complex to restore Oak continuum.	H		X					X					X						\$3,600,000	Blue Heron Ministries, Inc.	St. Joseph River Watershed Initiative		Fish and Wildlife Habitat	2010-2014	IN	From St. Joseph River Watershed Assessment
Lower Maumee River Watershed	Nutrient Management	Support for cover crops, precision & traditional nutrient management planning, crop rotations - BMP.	H			X		X													\$3,536,394	NRCS	SWCD's, ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
Lower Maumee River Watershed	Wastewater	Wastewater system in LMI area.	H			X															\$3,528,986	Defiance	OEPA		Water Quality	2009-2010	OH	From State stimulus list
Lower Maumee River Watershed	Flood Control	Conduct General Investigation Feasibility Study of regional flooding problems with goal of identifying plans to manage flood events.	H								X										\$3,500,000	USACE	TMACOG, City of Toledo, Lucas County, Monroe County		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2014	OH	General Feasibility Study, not yet authorized, actual overlaps into Ottawa Watershed also. Estimate preliminary, asked to include by USACE
Ottawa River Watershed	Stormwater Management	Silver 1, Stickney to Brent.	M			X					X										\$3,500,000	City of Toledo			Water Quality	2010	OH	
Lower Maumee River Watershed	Wastewater	Texas and Colton sanitary sewer project.	H			X															\$3,500,000	Napoleon	OEPA		Water Quality	2009-2010	OH	From State stimulus list
St. Marys River Watershed	Wastewater	Wastewater Treatment Plant.	H			X															\$3,500,000	Rockford	OEPA		Water Quality	2009	OH	From State stimulus list
Portage River Watershed	Wastewater	Sewer design/wastewater treatment services for Camp Perry, Erie Industrial Park, and BFI Landfill.	L			X															\$3,420,000	Port Clinton			Water Quality	2010-2015	OH	
Blanchard River Watershed	Wastewater	Sanitary collection & treatment.	H			X															\$3,400,000	Wharton	OEPA		Water Quality	2010	OH	From State stimulus list
Portage River Watershed	Wetland Protection/ Restoration	Continue support for Wetland Reserve Program (WRP) easement & land retirement needs for wetland restoration.	H			X		X			X										\$3,390,608	NRCS	SWCD's , ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed. Includes 20% for technical assistance.
Lower Maumee River Watershed	Wastewater	WWTP Improvements, Phase 2B.	H			X															\$3,350,000	Perrysburg	OEPA		Water Quality	2009	OH	From State stimulus list, duplication, see CSO listing for Perrysburg?
St. Joseph River Watershed	Watershed/ Community Planning	Complete HUC-11 subwatershed plans not yet completed.	H			X		X													\$3,300,000	St. Joseph River Watershed Initiative	Maumee River Basin Commission		Water Quality	2011-2014	IN	
St. Joseph River Watershed	Combined Sewer Overflow	Treatment plant Phase III Improvements.	H			X				X											\$3,300,000	Ft. Wayne			Water Quality	2010-2030	IN	From St. Joseph River Watershed Initiative
Tiffin River Watershed	Wastewater	Wastewater treatment facility.	H			X															\$3,200,000	Village of Fayette			Water Quality	2013-2014	OH	
Upper Maumee River Watershed	Stream/ Riparian Restoration	Complete 12 miles of one-sided stream re-construction along North Fork Gordon Creek, at Hicksville, Ohio.	M			X					X										\$3,100,000	Defiance SWCD			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH	
Portage River Watershed	Nutrient Management	Support for cover crops, precision & traditional nutrient management planning, crop rotations - BMP.	H			X		X													\$3,051,673	NRCS	SWCD's , ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
Upper Maumee River Watershed	Stream/ Riparian Restoration	Complete 12 miles stream bank on the South Gordon and Middle Gordon Creek, reconstruction/one-sided construction, wetland mitigation.	H		X	X									X						\$3,000,000	Defiance SWCD			Fish and Wildlife Habitat	2010-2014	OH	From commenter, look up.
St. Joseph River Watershed	Stream/ Riparian Restoration	Install sections of 2 stage ditch design for demonstrations and evaluation in several of tributaries to the river.	H		X	X		X													\$3,000,000	The Nature Conservancy	ISDA, Maumee River Basin Commission		Fish and Wildlife Habitat	2010-2014	IN	Joe Draper, TNC 3/19/09, also Jim Lake potential actions regarding 2 stage ditches.
Ottawa River Watershed	Sanitary Sewer Upgrades	Lockwood/Devilbiss SSES.	H			X															\$3,000,000	City of Toledo			Water Quality	2011	OH	
St. Joseph River Watershed	Stormwater Management	Reduce bacteria in river to meet EPA recreational seasonal WQS by 2025.	M			X	X		X			X									\$3,000,000	St. Joseph River Watershed Initiative	Maumee River Basin Commission		Water Quality	2011-2014	IN	Need to confirm if this is stormwater related or CSO related. If later, covered by CSO potential action.
Lower Maumee River Watershed	Stormwater Management	Swan Creek Pond, 40 ac. pond to capture pollutants that include sediment, agricultural runoff, feces, and other waste materials,, 200' of 2-state ditch to also help capture pollutants, help reduce flooding.	H			X		X			X										\$3,000,000	Lucas County Engineer	ODNR, OEPA		Water Quality	2010-2011	OH	Ohio Stimulus List March 18, 2009
Tiffin River Watershed	Wastewater	Wastewater collection and treatment.	H			X															\$3,000,000	Village of Ney	OEPA		Water Quality	2010-2014	OH	From State stimulus list

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments			
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBC	WLEB	HYDRO	DR	FRP	NPC	ENER	EU													
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concerns/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBC)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)													
Blanchard River Watershed	Nutrient Management	Provide erosion control structures & grass waterways - BMP.	H			X		X															\$2,957,910	NRCS	SWCD's , ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis	
Blanchard River Watershed	Flood Control	Stormwater system upgrade.	M			X																		\$2,946,537	Ottawa	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH	From State stimulus list
Auglaize River Watershed	Flood Control	Stormwater system upgrade.	H			X																		\$2,946,537	Ottoville	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	From State stimulus list
St. Joseph River Watershed	Nutrient Management	Provide erosion control structures & grass waterways - BMP.	H			X		X																\$2,933,316	NRCS	SWCD's , ODNR, ISDA, MDNR, MDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.
Auglaize River Watershed	Nutrient Management	Continue support for Conservation Reserve Program (CRP) easement & land retirement needs for filter strips, riparian forests, grass waterways, and windbreak practices.	H			X		X																\$2,832,300	USDA - FSA	NRCS, SWCD's , ODNR, ISDA		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.
Tiffin River Watershed	Wastewater	Williams Center Sewer project to tie in septic systems and reduce pollution loadings to Lick Creek.	H			X																		\$2,800,000	Bryan	OEPA		Water Quality	2010	OH	From State stimulus list
Lower Maumee River Watershed	Wastewater	Wastewater system in LMI area.	H			X																		\$2,797,644	Defiance	OEPA		Water Quality	2009-2010	OH	From State stimulus list
Tiffin River Watershed	Nutrient Management	Provide erosion control structures & grass waterways - BMP.	H			X		X																\$2,768,012	NRCS	SWCD's , ODNR, MDA, MDNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
Portage River Watershed	Wastewater	Extend sewer south of the Portage River/CSO LTCP.	M			X																		\$2,760,000	Village of Oak Harbor			Water Quality	2010-2015	OH	
Portage River Watershed	Wastewater	Class A Sludge.	M			X																		\$2,759,000	Village of Bellevue			Water Quality	2010	OH	
Blanchard River Watershed	Nutrient Management	Support for cover crops, precision & traditional nutrient management planning, crop rotations - BMP.	H			X		X																\$2,736,183	NRCS	SWCD's , ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
St. Joseph River Watershed	Nutrient Management	Support for cover crops, precision & traditional nutrient management planning, crop rotations - BMP.	H			X		X																\$2,713,433	NRCS	SWCD's , ODNR, ISDA, MDNR, MDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.
St. Marys River Watershed	Nutrient Management	Support for cover crops, precision & traditional nutrient management planning, crop rotations - BMP.	H			X		X																\$2,642,991	NRCS	SWCD's , ODNR, ISDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.
Portage River Watershed	Sanitary Sewer Upgrades	Replace existing interceptor and pump station along the south bank of the Portage River.	M			X																		\$2,627,125	Elmore	USEPA, OEPA	USEPA	Water Quality	2008-2009	OH	From State stimulus list and From Sanitary Sewage Infrastructure Report February 2009
Portage River Watershed	Nutrient Management	Provide erosion control structures & grass waterways - BMP.	H			X		X																\$2,613,956	NRCS	SWCD's , ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
Tiffin River Watershed	Nutrient Management	Support for cover crops, precision & traditional nutrient management planning, crop rotations - BMP.	H			X		X																\$2,560,520	NRCS	SWCD's , ODNR, MDA, MDNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
Lower Maumee River Watershed	Water Supply	Water treatment plant.	H																					\$2,531,900	Deshler	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State Stimulus list
Lower Maumee River Watershed	Nutrient Management	Provide erosion control structures & grass waterways - BMP.	H			X		X																\$2,500,359	NRCS	SWCD's , ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
Blanchard River Watershed	Recreation	Blanchard River Greenway Trail Between Taylor Street and Central Parkway.	H																					\$2,500,000	ODOT	Findlay		Resource-Based Recreation	2009	OH	
Portage River Watershed	Woody Debris Removal	Clear Streams of Logjams and Leaning and Downed Trees.	M																					\$2,500,000	County Engineer	SWCD		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$500,000/year
Portage River Watershed	Combined Sewer Overflow	CSOs, replacement WWTP.	H			X																		\$2,500,000	Pemberville	USEPA, OEPA		Water Quality	2009-2014	OH	Just on Edge of Portage, in watershed? See OEPA Map, very close to call but included.
Portage River Watershed	Recreation	Elmore/Genoa Recreational Trail, extension of North Coast Inland Trail originating in Clyde, Ohio.	H																					\$2,500,000	Elmore	ODNR		Resource-Based Recreation	2009	OH	From State stimulus list
Portage River Watershed	Wastewater	Install main sanitary trunk line to allow for sewer separation.	H			X																		\$2,500,000	Port Clinton			Water Quality	2010	OH	From State stimulus list
St. Marys River Watershed	Water Supply	Water Treatment Plant.	H																					\$2,500,000	Rockford	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list
Auglaize River Watershed	Wastewater	WWTP replacement.	H			X																		\$2,500,000	Ohio City	OEPA		Water Quality	2010	OH	From State stimulus list
St. Marys River Watershed	Nutrient Management	Provide erosion control structures & grass waterways - BMP.	H			X		X																\$2,461,963	NRCS	SWCD's , ODNR, ISDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.
Lower Maumee River Watershed	Nutrient Management	Support residue management and conservation tillage - BMP.	H			X		X																\$2,432,108	NRCS	SWCD's , ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
Auglaize River Watershed	Nutrient Management	Support animal waste utilization and storage structures - BMP.	H			X		X																\$2,416,834	NRCS	SWCD's , ODNR, ISDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
St. Joseph River Watershed	Stormwater Management	CSO-LTCP, SSO, NPDES Phase II man+C67dates.	M			X		X																\$2,350,000	Leo-Cedarville	IDEM		Water Quality	2010-2014	IN	From St. Joseph River Watershed Initiative
Lower Maumee River Watershed	Wastewater	Okalona sanitary sewer project.	H			X																		\$2,341,000	Napoleon	OEPA, USDA		Water Quality	2009	OH	From State stimulus list
Portage River Watershed	Nutrient Management	Continue support for Conservation Reserve Program (CRP) easement & land retirement needs for filter strips, riparian forests, grass waterways, and windbreak practices.	H			X		X																\$2,310,619	USDA - FSA	NRCS, SWCD's , ODNR		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed. Includes 20% for technical assistance.
Portage River Watershed	Sanitary Sewer Upgrades	Eliminate septic Systems.	M			X																		\$2,300,000	West Millgrove/ Halton	OEPA	OEPA	Water Quality	2009-2014	OH	From Sanitary Sewage Infrastructure Report February 2009.

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WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments				
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU														
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)														
Portage River Watershed	Wastewater	Sanitary sewer system construction, tie in septic tanks systems, West Millgrove.	H			X																	\$2,300,000	Northwestern Water & Sewer District	OEPA		Water Quality	2010	OH	From State stimulus list		
Auglaize River Watershed	Wastewater	WWTP upgrade - trickling filter with lagoon treatment system .	H			X																		\$2,290,455	Continental	OEPA		Water Quality	2010	OH	From State stimulus list	
St. Joseph River Watershed	Combined Sewer Overflow	Eliminate CSOs.	H			X						X												\$2,200,000	Reading	USEPA	USEPA	Water Quality	2009-2014	IN	Just at edge of watershed, Surf Your Watershed site indicates in St. Joseph.	
Blanchard River Watershed	Combined Sewer Overflow	LTCP-CSO elimination.	H			X						X												\$2,200,000	Pandora	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH		
Portage River Watershed	Wastewater	Wastewater treatment plant - ultra-violet disinfection system.	H			X																		\$2,200,000	Bowling Green	OEPA		Water Quality	2010	OH	From State stimulus list	
Portage River Watershed	Nutrient Management	Support residue management and conservation tillage - BMP.	H			X		X																\$2,098,748	NRCS	SWCD's , ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.	
St. Marys River Watershed	Nutrient Management	Support animal waste utilization and storage structures - BMP.	H			X		X																\$2,086,992	NRCS	SWCD's , ODNR, ISDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.	
Portage River Watershed	Combined Sewer Overflow	Sewer separation, Phase I.	H			X						X												\$2,049,000	Village of Woodville	USEPA, OEPA	USEPA	Water Quality	2010	OH		
Portage River Watershed	Combined Sewer Overflow	Sewer separation, Phase II.	M			X						X												\$2,005,000	Village of Woodville	USEPA, OEPA	USEPA	Water Quality	2014	OH		
Lower Maumee River Watershed	Habitat Restoration and/ or Protection	Address sediment contamination in Duck and Otter Creeks.	H			X	X		X												X				\$2,000,000	US EPA GLNPO	Duck and Otter Creeks Partnership and/or Industry Group		Water Quality	2010-2013	OH	Provided by PCS, Kris Patterson, 73009
Portage River Watershed	Stream/ Riparian Restoration	Aggressively promote riparian buffer, conservation and reforestation programs, and purchase land or easements on land adjacent to streams.	H			X	X						X											\$2,000,000	Portage River Basin Council	SWCD, ODNR, NRCS		Fish and Wildlife Habitat	2010-2014	OH		
Upper Maumee River Watershed	Conservation	Aggressively promote riparian buffer, conservation and reforestation programs, and purchase land or easements on land adjacent to streams.	H			X						X									X			\$2,000,000	SWCD's	ODNR, IDNR, NRCS		Fish and Wildlife Habitat	2010-2014	IN		
WLEB	Watershed/ Community Planning	Authorize and fund 1) coordinator position(s) to implement and 2) initial operating & program support to implement WLEB Management Plan and facilitate development of and implementation of WLEB Partnership Implementation Plan.																						\$2,000,000	USACE	NRCS, States		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	WLEB	\$200,000 per year for staff for 5 years and \$200,000 per year in operating and program support.	
Portage River Watershed	Wastewater	Construct new WWTP.	H			X																		\$2,000,000	Village of Pemberville			Water Quality	2011-2013	OH		
WLEB	Nutrient Management	Cost-share program on installed cover crops to stop erosion, nutrient recovery.	M			X		X					X											\$2,000,000	ODNR	SWCDs, NRCS		Water Quality	2010-2014	WLEB	Ed Crawford, ODNR-DSWC. \$400,000/per year, cost share program.	
St. Joseph River Watershed	Combined Sewer Overflow	CSO-LTCP, SSO, MS4 Mandates to reduce inflow and infiltration.	H			X						X												\$2,000,000	Butler	USEPA		Water Quality	2010-2020	IN	From St. Joseph River Watershed Initiative	
Portage River Watershed	Stream/ Riparian Restoration	Establish and preserve riparian habitat.	H			X	X						X											\$2,000,000	Portage River Basin Council			Fish and Wildlife Habitat	2010-2014	OH		
St. Marys River Watershed	Stream/ Riparian Restoration	Establish and preserve riparian habitat.	H			X		X					X								X			\$2,000,000	SWCD's			Fish and Wildlife Habitat	2010-2014	OH		
Upper Maumee River Watershed	Stream/ Riparian Restoration	Establish and preserve riparian habitat.	M			X	X																	\$2,000,000	SWCD's			Water Quality	2010-2014	OH		
Tiffin River Watershed	Conservation	Expansion of Goll Woods Nature Preserve, Tiffin Wildlife Area, and Harrison State Park.	H			X															X			\$2,000,000	Fulton County Regional Planning Commission			Fish and Wildlife Habitat	2010-2014	OH		
Ottawa River Watershed	Conservation	Implement additional conservation projects that enhance habitat leveraging both current and new NRCS sponsored programs.	H			X							X											\$2,000,000	NRCS	SWCD		Fish and Wildlife Habitat	2010-2014	OH	Steve Davis, OK 60909	
Upper Maumee River Watershed	Nutrient Management	Increase the percentage of agricultural acreage in the watershed under conservation tillage practices – sponsors.	M			X		X					X											\$2,000,000	ODNR	OEPA, ODA, IDNR, NRCS		Water Quality	2010-2015	OH		
WLEB	Nutrient Management	Install controlled ag-drainage systems for nutrient and water management, cost share program.	H			X		X					X											\$2,000,000	ODNR	SWCDs, NRCS		Water Quality	2010-2014	WLEB	Ed Crawford, ODNR-DSWC. \$400,000/per year, cost share program.	
Auglaize River Watershed	Wastewater	Lima, upstream regulator improvements	H			X																		\$2,000,000	Lima	OEPA		Water Quality	2009	OH	From State stimulus list	
Upper Maumee River Watershed	Stream/ Riparian Restoration	Limit additional development and restore flood retention capabilities of floodplains.	M			X	X														X			\$2,000,000	Counties	Municipalities		Fish and Wildlife Habitat	2010-2014	IN		
Ottawa River Watershed	Stormwater Management	Shantee 4A	L			X							X											\$2,000,000	City of Toledo			Water Quality	2010	OH		
Tiffin River Watershed	Flood Mitigation	Site identification programs and land acquisition and management strategy for preservation of open space/conservation land that benefits flood mitigation, fish habitat, and quality.	H										X											\$2,000,000	FEMA	State, local, regional government, non-profits, community		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$1 million initial, \$200,000/yr	
Blanchard River Watershed	Wastewater	Westside Interceptor replacement - 8,700 sewer replacement	H			X																		\$2,000,000	Bluffton	OEPA		Water Quality	2009	OH	From State stimulus list	
Tiffin River Watershed	Wastewater	Melbern sewer project to tie in septic systems causing pollution problems to Lick Creek	H			X																		\$1,900,000	Bryan	OEPA		Water Quality	2010	OH	From State stimulus list	
Upper Maumee River Watershed	Water Supply	Replacement of existing water tower with 1,500,000 gal tower	H									X												\$1,900,000	Defiance	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2011	OH	From State stimulus list	

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments		
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU												
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)												
Auglaize River Watershed	Recreation	Riverwalk Connectors, construction of bikeways linking the Ottawa River Bikeway to parks and schools	H																			\$1,900,000	Lima			Resource-Based Recreation	2009-2011	OH	From State stimulus list	
Blanchard River Watershed	Nutrient Management	Support residue management and conservation tillage - BMP	H			X		X															\$1,881,774	NRCS	SWCD's , ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
St. Marys River Watershed	Nutrient Management	Support residue management and conservation tillage - BMP	H			X		X															\$1,880,692	NRCS	SWCD's , ODNR, ISDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.
Lower Maumee River Watershed	Wastewater	Wastewater system in LMI area	H			X																	\$1,857,084	Defiance	OEPA		Water Quality	2009-2010	OH	From State stimulus list
St. Joseph River Watershed	Nutrient Management	Support residue management and conservation tillage - BMP	H			X		X															\$1,849,849	NRCS	SWCD's , ODNR, ISDA, MDNR, MDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.
Auglaize River Watershed	Water Supply	New nanofiltration membrane water treatment plant with iron removal filters. Plant to provide softened water to our community of 2,200 residents. This will replace the current system which aerates and chlorinates the water before pumping to the consumer.	H										X										\$1,800,000	Spencerville	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2033	OH	Ohio Stimulus List March 18, 2009
Auglaize River Watershed	Water Supply	New water treatment plant	H										X										\$1,800,000	Middle Point	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list
Ottawa River Watershed	Stormwater Management	Peterman	M			X								X									\$1,800,000	City of Toledo			Water Quality	2010	OH	
Lower Maumee River Watershed	Nutrient Management	Continue support for Conservation Reserve Program (CRP) easement & land retirement needs for filter strips, riparian forests, grass waterways, and windbreak practices	H			X		X						X		X							\$1,788,089	USDA - FSA	NRCS, SWCD's, ODNR		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.
Tiffin River Watershed	Nutrient Management	Support residue management and conservation tillage - BMP	H			X		X															\$1,760,964	NRCS	SWCD's , ODNR, MDA, MDNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
St. Marys River Watershed	Nutrient Management	Continue support for Conservation Reserve Program (CRP) easement & land retirement needs for filter strips, riparian forests, grass waterways, and windbreak practices.	H			X		X						X		X							\$1,722,600	USDA - FSA	NRCS, SWCD's , ODNR, ISDA		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.
Lower Maumee River Watershed	Nutrient Management	Support animal waste utilization and storage structures - BMP	H			X		X															\$1,703,065	NRCS	SWCD's, ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
Portage River Watershed	Wastewater	WWTP LTCP Phase Improvements.	M			X																	\$1,690,000	Bowling Green			Water Quality	2008	OH	
Portage River Watershed	Combined Sewer Overflow	LTCP - Phase I - reroute Hurlbut Ditch.	M			X						X											\$1,680,000	Village of Gibsonburg	USEPA, OEPA	USEPA	Water Quality	2008	OH	
St. Joseph River Watershed	Nutrient Management	Continue support for Conservation Reserve Program (CRP) easement & land retirement needs for filter strips, riparian forests, grass waterways, and windbreak practices.	H			X		X						X		X							\$1,606,669	USDA - FSA	NRCS, SWCD's , ODNR, ISDA, MDNR, MDA		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.
Blanchard River Watershed	Water Supply	New water tank	H										X										\$1,600,000	Pandora	OEPA		Water Quality	2009	OH	From State stimulus list
WLEB	Stream Flow & Quality Monitoring	Establish coordinated/ integrated water quality and quantity monitoring network by installing 16 gauges necessary to meet future data needs to document benefits of implemented potential actions and track progress towards achieving water quality goals (includes 5 years annual O&M)	H											X									\$1,568,000	USGS	ODNR, ODOT, Watershed Groups, Communities		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	WLEB	16 gages, Installation costs: \$480,000. Annual O&M \$1,088,000 (\$13,600 per gage per year)
Portage River Watershed	Combined Sewer Overflow	Sewer separation, Phase III.	L			X							X										\$1,554,000	Village of Woodville	USEPA, OEPA	USEPA	Water Quality	2014	OH	
Ottawa River Watershed	Dredging	Reuse noncontaminated dredged sediment to create mudflats and associated shorebird habitat adjacent to the Erie Marsh Preserve (feasibility, design and implementation).	M																				\$1,550,000	The Nature Conservancy	USACE	USACE	Fish and Wildlife Habitat	2012	OH	\$400,000 - feasibility; \$1.2 million - design & implementation; \$1.55 million - total. Funding needed.
Auglaize River Watershed	Wastewater	Village of Cridersville WWTP Rehabilitation	H			X																	\$1,544,430	Cridersville	OEPA		Water Quality	2009	OH	From State stimulus list
Portage River Watershed	Wastewater	Connection to existing sewerage system of one of its neighboring villages or construction of a new WWTP.	M			X																	\$1,500,000	NW Water and Sewer District	Village of West Millgrove, Hatton Counties		Water Quality	2010-2015	OH	
Auglaize River Watershed	Conservation	Expand and connect the already extensive trail system. The Spencerville-Elgin Rail Trail (Indiana High Rail), and the Marion Tall Grass Prairie Trail, formally the Phoebe Snow Rail Trail both have plans for expansion. There is a potential trail alignment continuing the Ottawa River Bikeway Trail to the east from Lima to Schoonover Park, adjoining a series of large wetlands, then east to just south of Hawthorne Hills Country Club/Mummaugh Rd. along a very large wetland.	M			X							X										\$1,500,000	Park Districts			Resource-Based Recreation	2012-2014	OH	
Ottawa River Watershed	Stormwater Management	Haefner 2	M			X								X									\$1,500,000	City of Toledo			Water Quality	2010	OH	
Auglaize River Watershed	Recreation	Ottawa River Bikeway landscaping - Phase II & IV	H										X										\$1,500,000	Lima	ODNR		Resource-Based Recreation	2009	OH	From State stimulus list
Ottawa River Watershed	Stream/ Riparian Restoration	Ottawa River Remediation and Restoration Project	H			X	X																\$1,500,000	Ottawa	Private/Public Partners		Fish and Wildlife Habitat	2009-2012	OH	Duplicate, eliminate

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives								Cost Estimate	Lead	Support	Existing/Prospective Authority	WLEB Study Category	Time Frame	State	Comments
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU											
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)											
Auglaize River Watershed	Wetland Protection/Restoration	Promote wetland restoration to provide floodwater storage and enhance groundwater recharge.	H		X	X															\$1,500,000	ODNR	Counties, Ducks Unlimited		Fish and Wildlife Habitat	2010-2014	OH		
Lower Maumee River Watershed	Conservation	Purchase 7 parcels near Oak Openings to expand protection for this system.	H		X							X									\$1,500,000	Toledo Metropolitan Park District	TMACOG		Fish and Wildlife Habitat	2008-2013	OH		
Portage River Watershed	Sanitary Sewer Upgrades	Replace 800+ grinder pumps in service area.	M			X															\$1,500,000	Catawba Island/Portage Twp.			Water Quality	2008-2010	OH		
Auglaize River Watershed	Wastewater	Sanitary sewer slip lining to reduce I/I	H			X															\$1,500,000	Village of Elida	OEPA		Water Quality	2009	OH	From State stimulus list	
St. Joseph River Watershed	Nutrient Management	Support animal waste utilization and storage structures - BMP	H			X		X													\$1,422,786	NRCS	SWCD's , ODNR, ISDA, MDNR, MDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.	
Blanchard River Watershed	Combined Sewer Overflow	LTCP-CSO elimination.	H			X						X									\$1,400,000	Bluffton	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH		
Lower Maumee River Watershed	Wastewater	WWTP replacement, Williamsburg/Otsego Regional WWTP.	H			X															\$1,400,000	Northwestern Water & Sewer District	OEPA		Water Quality	2009	OH	From State stimulus list	
Blanchard River Watershed	Nutrient Management	Continue support for Conservation Reserve Program (CRP) easement & land retirement needs for filter strips, riparian forests, grass waterways, and windbreak practices	H			X		X													\$1,388,630	USDA - FSA	NRCS, SWCD's , ODNR		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.	
Portage River Watershed	Flood Control	Construct levees in Pemberville.	H										X								\$1,354,000	USACE	County Engineers	USACE	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012-2013	OH	\$624,000 (levee); \$730,000 (bridge replacement as a result of levee)	
Auglaize River Watershed	Rural Drainage Improvements	Complete 5 mile of log jam removal and one sided stream reconstruction along Little Ottawa River, Lima, Ohio.	M		X	X															\$1,300,000	Allen SWCD			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH		
Blanchard River Watershed	Rural Drainage Improvements	Complete 4 miles of stream restoration and over-wide, one sided reconstruction along Little Cranberry Creek, at Lima, Ohio.	M		X	X															\$1,300,000	Allen SWCD			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH		
Tiffin River Watershed	Stream/ Riparian Restoration	Complete 5 miles of on-sided stream channel re-construction along Black Creek, at Ney/Sherwood, Ohio.	M		X	X															\$1,300,000	Defiance SWCD			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH		
Auglaize River Watershed	Combined Sewer Overflow	Construct interceptor trunk sewer	H			X						X									\$1,300,000	Payne	USEPA, OEPA		Water Quality	2009-2014	OH	From State stimulus list	
Auglaize River Watershed	Sanitary Sewer Overflow	Lima - 5000 new sanitary sewer to eliminate SSO	H			X															\$1,300,000	Lima	OEPA		Water Quality	2009	OH	From State stimulus list	
St. Joseph River Watershed	Combined Sewer Overflow	Satellite disinfection at St. Joseph River CSO	H			X						X									\$1,270,994	Fl. Wayne			Water Quality	2010-2030	IN	From St. Joseph River Watershed Initiative	
Upper Maumee River Watershed	Nutrient Management	Support for cover crops, precision & traditional nutrient management planning, crop rotations - BMP	H			X		X													\$1,263,446	NRCS	SWCD's , ODNR, IDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.	
Auglaize River Watershed	Wastewater	Construction of wastewater oxidation ditch to improve effluent water quality	H			X															\$1,250,000	Village of Elida	OEPA		Water Quality	2009	OH	From State stimulus list	
WLEB	Watershed/Community Planning	Establish a WLEB Assistance Grant Program to encourage and stimulate local watershed/ community planning and projects in support of WLEB strategic goals and objectives.	H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	\$1,250,000	NRCS	USACE, WLEB Partnership, States		Water Quality	2010-2014	WLEB	Steve Davis, OK 60909	
Portage River Watershed	Stormwater Management	BGSU Pond Enlargement	H			X							X								\$1,200,000	Bowling Green	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	TMACOG	
Lower Maumee River Watershed	Stormwater Management	Delaware Creek drainage improvement	M			X						X									\$1,200,000	City of Toledo	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	TMACOG	
Portage River Watershed	Wastewater	Sanitary sewers to reduce septic tanks, Thompson & Truman Roads	H			X															\$1,200,000	Bowling Green	OEPA		Water Quality	2010	OH	From State stimulus list	
Auglaize River Watershed	Wastewater	WWTP improvements	H			X															\$1,200,000	Van Wert	OEPA		Water Quality	2010	OH	From State stimulus list	
Blanchard River Watershed	Nutrient Management	Support animal waste utilization and storage structures - BMP	H			X		X													\$1,188,362	NRCS	SWCD's , ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis	
Portage River Watershed	Nutrient Management	Support animal waste utilization and storage structures - BMP	H			X		X													\$1,170,832	NRCS	SWCD's , ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.	
Ottawa River Watershed	Stormwater Management	Shantee ¾	L			X							X								\$1,120,000	City of Toledo			Water Quality	2010	OH		
Auglaize River Watershed	Water Supply	New water tower & water lines	H									X									\$1,100,000	Continental	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	From State stimulus list	
Tiffin River Watershed	Nutrient Management	Support animal waste utilization and storage structures - BMP	H			X		X													\$1,075,018	NRCS	SWCD's , ODNR, MDA, MDNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.	
St. Joseph River Watershed	Wetland Protection/Restoration	Continue support for Wetland Reserve Program (WRP) easement & land retirement needs for wetland restoration.	H			X		X					X								\$1,044,621	NRCS	SWCD's , ODNR, ISDA, MDNR, MDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.	
St. Marys River Watershed	Conservation	Aggressively promote riparian buffer, conservation and reforestation programs, and purchase land or easements on land adjacent to streams.	H		X							X									\$1,000,000	SWCD's	ODNR, IDNR, NRCS		Fish and Wildlife Habitat	2010-2014	OH		

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WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives						Cost Estimate	Lead	Support	Existing/Prospective Authority	WLEB Study Category	Time Frame	State	Comments
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU									
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concerns/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)									
WLEB	BMPs/ Green Infrastructure	Conduct a small community green infrastructure demonstration program to identify and test cost effective alternatives to traditional LTCP CSO engineering solutions.	H			X						X						\$1,000,000	Communities	OEPA, ODNR, USACE		Water Quality	2011	WLEB			
Upper Maumee River Watershed	Wetland Protection/ Restoration	Construction of a wetland bank.	H		X	X							X					\$1,000,000	ODNR	USACE, OEPA		Fish and Wildlife Habitat	2010-2014	OH	\$1 million (40 acre wetland not including land acquisition or design fees)		
St. Marys River Watershed	Flood Mitigation	Continue acquisition of structures along Junk Ditch to maintain overflow path capacity.	H										X					\$1,000,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN			
St. Joseph River Watershed	Flood Mitigation	Continue support of voluntary agricultural land conversion program to establish conservation easements in the floodplain.	H					X					X					\$1,000,000	Maumee River Basin Commission	St. Joseph Watershed Initiative		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN			
Auglaize River Watershed	Combined Sewer Overflow	CSO retention pond	H			X						X						\$1,000,000	Payne	USEPA, OEPA		Water Quality	2010	OH	From State stimulus list		
St. Joseph River Watershed	Stream/ Riparian Restoration	Develop and implement an incentive program for cropland in the floodway to install BMPs and/or take this land out of production (20 year plan)	M			X	X											\$1,000,000	St. Joseph River Watershed Initiative	Maumee River Basin Commission		Water Quality	2010-2020	IN	From St. Joseph River Watershed Initiative		
Lower Maumee River Watershed	Wetland Protection/ Restoration	Develop detailed Wetland and Riparian Inventory plans for all remaining HUC units in Maumee AOC	H			X	X	X										\$1,000,000	Partners For Clean Streams (PCS)			Water Quality	2010-2013	OH	Provided by PCS, Kris Patterson, 73009		
Auglaize River Watershed	Stream/ Riparian Restoration	Develop inventories and restoration plans to restore active floodplains.	L		X	X												\$1,000,000	USACE	ODNR, Counties		Fish and Wildlife Habitat	2010-2014	OH			
St. Marys River Watershed	Wetland Protection/ Restoration	Establish a wetland bank (costs recouped through selling credits).	H		X	X							X					\$1,000,000	SWCD's	NRCS, ODNR, IDNR		Fish and Wildlife Habitat	2010	OH	\$1 million (40 acre wetland not including land acquisition or design fees)		
Upper Maumee River Watershed	Wetland Protection/ Restoration	Establish a wetland bank (costs recouped through selling credits).	H		X	X							X					\$1,000,000	SWCD's	NRCS, ODNR, IDNR		Fish and Wildlife Habitat	2010	OH			
Auglaize River Watershed	Flood Mitigation	Expand and protect parks along the Auglaize River to protect floodplains. Funds are needed to complete comprehensive and site-specific plans, to purchase and restore property, and to manage parks and preserves.	H										X					\$1,000,000	NRCS	SWCD, Counties		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2014	OH	Steve Davis, OK 60909		
Blanchard River Watershed	Flood Mitigation	Expand and protect parks along the Blanchard River, in the interest of protecting floodplains, via measures such as conservation easements, Flood Plain Easements, the wetland reserve program and the CREP program.	M															\$1,000,000	NRCS	SWCD, Counties		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2012	OH	Part of recently implemented flood easement program. Steve Davis OK 60909.		
Upper Maumee River Watershed	Flood Mitigation	Expand and protect parks along the Upper Maumee River, in the interest of protecting floodplains, via measures such as conservation easements, Floodplain Easements, the wetland reserve program and the CREP program.	M										X					\$1,000,000	NRCS	SWCD, Counties	NRCS	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2012	OH	Part of recently implemented flood easement program. Steve Davis OK 60909.		
Ottawa River Watershed	Brownfield Remediation	Expand hazardous waste cleanup program to provide resources for cleanup of sites which impact public health. Establish grant/loan fund for local communities to access sites, perform cleanups and/or attract federal matching funds. Take further advantage of Water Pollution Control Loan Fund for cleanups.	M			X	X	X	X									\$1,000,000	OEPA			Water Quality	2010-2014	OH			
Portage River Watershed	Flood Mitigation	Flood prone property and wetland/flood plain area purchase.	M										X					\$1,000,000	OEMA	Wood, Ottawa, Sandusky, Seneca and Hancock Counties	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$1,200 - \$45,000/acre for a 5 acre farm, \$70,000 - \$500,000/acre for residential property		
Portage River Watershed	Conservation	Implement additional conservation projects that enhance habitat leveraging both current and new NRCS sponsored programs.	H		X							X						\$1,000,000	NRCS	SWCD	NRCS	Fish and Wildlife Habitat	2010-2014	OH	Steve Davis, OK 60909		
Lower Maumee River Watershed	Dredging	Implement alternate uses for dredge material (e.g. products, upland beneficial uses, existing CDF facilities).	M										X					\$1,000,000	Toledo-Lucas County Port Authority	USACE	USACE	Water Quality	2010-2014	OH	Pilot studies underway, select preferred option. Funding needed to promote implementation of viable beneficial use technologies.		
Ottawa River Watershed	Stream Bank Erosion	Implement stream bank and channel restoration, floodplain restoration of Ottawa River at University of Toledo as recommended by Ottawa River Commission	H			X	X											\$1,000,000	University of Toledo	Partners For Clean Streams (PCS)		Water Quality	2010-2014	OH	UT Ottawa River Commission project, Dr. Patrick Lawrence lead, Provided by PCS, Kris Patterson, 73009		
Tiffin River Watershed	Wetland Protection/ Restoration	Incorporate bioretention use, wetlands & floodway protection to slow drainage and sedimentation downstream.	M		X	X							X					\$1,000,000	Bean Creek Watershed Group	MDEQ		Water Quality	2010-2014	MI	\$200,000/yr was estimate provided, indefinite time period, included only 5 years		
Ottawa River Watershed	Wetland Protection/ Restoration	Incorporate restoration and enhancement of wetland areas in channel and overbank improvement projects and consider construction of a wetland bank that sells credits to projects that disturb wetlands elsewhere.	H		X	X							X					\$1,000,000	Counties	County Agencies, OEPA, Corps of Engineers, ODNR, NRCS, SWCD's, Ducks Unlimited		Fish and Wildlife Habitat	2010-2014	OH	\$1 million (40 acre wetland not including land acquisition or design fees)		
Portage River Watershed	Wetland Protection/ Restoration	Incorporate restoration and enhancement of wetland areas in channel and overbank improvement projects and consider construction of a wetland bank that sells credits to projects that disturb wetlands elsewhere.	H		X	X							X					\$1,000,000	USACE	County Engineers, OEPA, ODNR		Fish and Wildlife Habitat	2010-2014	OH	\$1 million (40 acre wetland not including land acquisition or design fees)		
Tiffin River Watershed	Recreation	Increase the number of access points for canoeing and kayaking by 25% across the watershed	M									X						\$1,000,000	ODNR			Commercial and Recreational Navigation	2012-2014	OH			
Portage River Watershed	Nutrient Management	Increase the percentage of agricultural acreage in the watershed under conservation tillage practices - sponsors.	H			X		X					X					\$1,000,000	ODNR	OEPA, ODA		Water Quality	2010-2014	OH			

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives								Cost Estimate	Lead	Support	Existing/Prospective Authority	WLEB Study Category	Time Frame	State	Comments		
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU													
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concerns/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)													
St. Marys River Watershed	Nutrient Management	Increase the percentage of agricultural acreage in the watershed under conservation tillage practices – sponsors.	H			X		X															\$1,000,000	ODNR	OEPA, ODA, IDNR, NRCS		Water quality	2010-2014	OH		
St. Joseph River Watershed	Stream/ Riparian Restoration	Install urban BMPs on 900 developed acres in the flood zone (20 year plan)	M			X																		\$1,000,000	St. Joseph River Watershed Initiative		Water Quality	2009-2020	IN	From St. Joseph River Watershed Initiative	
Auglaize River Watershed	Stream/ Riparian Restoration	Limit additional development and restore flood retention capabilities of floodplains.	H		X	X																		\$1,000,000	Counties	Municipalities		Fish and Wildlife Habitat	2010-2014	OH	
Ottawa River Watershed	Stream/ Riparian Restoration	Limit additional development and restore flood retention capabilities of floodplains.	H		X	X																		\$1,000,000	Counties	Municipalities		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	
St. Marys River Watershed	Stream/ Riparian Restoration	Limit additional development and restore flood retention capabilities of floodplains.	M			X					X													\$1,000,000	Counties	Municipalities		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	
Portage River Watershed	Stream/ Riparian Restoration	Limit additional development and restore flood retention capabilities of floodplains.	H		X	X					X													\$1,000,000	County Planning Commissions	Village & City Councils		Fish and Wildlife Habitat	2010-2014	OH	
Auglaize River Watershed	Rural Drainage Improvements	Lost Creek ditch improvements	H			X		X				X												\$1,000,000	Allen County	NRCS, Soil and Water Conservation District		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list
Portage River Watershed	Conservation	Promote riparian buffer, conservation and reforestation programs, and purchase land or easements on land adjacent to streams.	H		X						X					X								\$1,000,000	Portage River Basin Council	SWCD, ODNR, NRCS		Fish and Wildlife Habitat	2009-2014	OH	
Blanchard River Watershed	Recreation	Provide funding for existing recreation infrastructure maintenance gaps.	L								X													\$1,000,000	Hancock Park District			Fish and Wildlife Habitat	2009	OH	
Portage River Watershed	Nutrient Management	Provide nutrient management strategies and education.	M			X		X				X												\$1,000,000	County Health Department	OEPA, NRCS, SWCD		Water Quality	2010-2014	OH	\$50,000 annually/county
St. Marys River Watershed	Stream Bank Erosion	Repair areas of streambank erosion.	M			X		X																\$1,000,000	NRCS	SWCDs, County engineers		Water quality	2010-2014	OH	Steve Davis, OK 60909
Portage River Watershed	Stream Bank Erosion	Repair areas of streambank erosion.	M			X		X																\$1,000,000	Portage River Basin Council			Water Quality	2010-2014	OH	
Auglaize River Watershed	Flood Control	Restore wetlands to assist in flood control.	H									X												\$1,000,000	Counties	OEPA, IDEM		Fish and Wildlife Habitat	2010-2014	OH	
WLEB	Flood Mitigation	Update County Natural Disaster Mitigation Plans to incorporate multi-objective non-structural tools for reducing flood damage.	H									X												\$1,000,000	Counties	OEMA, Michigan OEMA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	WLEB	Feasibility Study Initially to determine design and construction costs.
St. Joseph River Watershed	Nutrient Management	Use appropriate federal conservation programs included in the 2008 Farm Bill to provide incentives for establishment of riparian buffers and/or grass filter strips along the river and all tributaries.	H			X		X				X												\$1,000,000	FSA	ISDA, St. Joseph River Watershed Initiatives		Water Quality	2009-2014	IN	Jim Lake, ISDA 3/17/09
St. Joseph River Watershed	Wetland Protection/Restoration	Use appropriate federal conservation programs included in the 2008 Farm Bill to provide incentives for targeting endangered species habitat, restoring riparian corridors,	H		X	X					X				X									\$1,000,000	NRCS	St. Joseph River Watershed Initiative, Ducks Unlimited, TNC		Fish and Wildlife Habitat	2009-2014	IN	Jim Lake, ISDA 3/17/09, Steve Davis confirmed.
St. Joseph River Watershed	Flood Mitigation	Use appropriate federal conservation programs included in the 2008 Farm Bill to purchase conservation easements on flood plain cropland and/ or other appropriate land in the watershed.	H			X		X				X												\$1,000,000	NRCS	St. Joseph River Watershed Initiative		Fish and Wildlife Habitat	2009-2014	IN	Jim Lake, ISDA 3/17/09, Steve Davis confirmed.
Portage River Watershed	Flood Mitigation	Use federal and state conservation reserve programs and NRCS Flood Easement Program to purchase easements on flood plain and upland wetlands.	H									X												\$1,000,000	NRCS	SWCD	NRCS	Fish and Wildlife Habitat	2010-2014	OH	Steve Davis, OK 60909
Auglaize River Watershed	Flood Mitigation	Use federal and state conservation reserve programs to purchase easements on flood plain and upland wetlands.	H									X												\$1,000,000	Counties	Municipalities	NRCS	Fish and Wildlife Habitat	2010-2014	OH	
Auglaize River Watershed	Water Supply	Water treatment plant - raw and finish water lines	H								X													\$927,606	Wapakoneta	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list
Portage River Watershed	Flood Control	East Branch - Improve flood control by decommissioning an unused reservoir and improve water quality.	H									X												\$900,000	Fostoria			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	From State stimulus list
Tiffin River Watershed	Watershed/Community Planning	Expedite TMDL Studies.	H			X																		\$900,000	OEPA	MDEQ, USEPA		Water Quality	2009	OH	
Portage River Watershed	Sanitary Sewer Upgrades	Sewer extension to serve the landfill.	L			X																		\$860,345	Port Clinton			Water Quality	2009-2010	OH	
Portage River Watershed	Sanitary Sewer Upgrades	Aeration	M			X																		\$825,000	Village of Bellevue			Water Quality	2010	OH	
Auglaize River Watershed	Recreation	Auglaize River Corridor Park Project	H								X													\$822,752	Wapakoneta	ODNR		Resource-Based Recreation	2009	OH	From State stimulus list
Upper Maumee River Watershed	Nutrient Management	Support residue management and conservation tillage - BMP	H			X		X																\$800,855	NRCS	SWCD's , ODNR, IDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
Blanchard River Watershed	Flood Control	Complete General Watershed Investigation to reduce flood damage and restore watershed ecosystem.	H									X												\$800,000	USACE	Findlay, Ottawa, NWFMP, ODNR, F&WS	WRDA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2010	OH	

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives						Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU									
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)									
WLEB	Rural Drainage Improvements	Conduct rural drainage system demonstration program involving evaluating benefits of in-stream structures for habitat creation, improving water quality, and flood damage reduction.	M			X		X				X							\$800,000	Ducks Unlimited, Inc.	ODNR, OEPA, NCRS, SWCD's, USACE		Fish and Wildlife Habitat	2010-2011	WLEB	Per Roy Kroll, URS provided estimate,	
WLEB	Watershed/ Community Planning	Prepare watershed habitat (wetlands, streams, riparian areas) restoration priorities including estimated costs to implement.	H			X													\$800,000	Watershed Groups	OEPA, ODNR, USACE, NCRC		Fish and Wildlife Habitat	2011-2014	WLEB	8 watersheds require plans was assumption,	
Tiffin River Watershed	Sanitary Sewer Overflow	Sunny Area Sanitary sewer replacement	H			X													\$800,000	Bryan	OEPA		Water Quality	2009	OH	From State stimulus list	
Auglaize River Watershed	Wetland Protection/ Restoration	Continue support for Wetland Reserve Program (WRP) easement & land retirement needs for wetland restoration	H			X		X					X						\$797,127	NRCS	SWCD's , ODNR, ISDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.	
Auglaize River Watershed	Woody Debris Removal	Log jam and debris removal, 60 miles stretch of Auglaize River.	H										X						\$782,000	Auglaize County Engineer	Allen County Soil & Water Conservation District		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list	
Portage River Watershed	Wastewater	Construct new sludge dewatering facility.	M			X													\$780,000	Village of North Baltimore			Water Quality	2009	OH		
St. Joseph River Watershed	Stream/ Riparian Restoration	Reduce sediment (TSS) at Mayhew Road bridge site by 30% by the year 2025	M			X			X				X						\$775,000	St. Joseph River Watershed Initiative	ISDA, NRCS		Water Quality	2010-2025	IN		
St. Joseph River Watershed	Flood Mitigation	Establish an interagency pilot project in a small watershed to model the effect of a large scale and strategic wetland restoration program on watershed hydrology, water quality, and sediment export.	M										X						\$750,000	NRCS	USACE		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	Jim Lake, ISDA 3/17/09	
Portage River Watershed	Education	Prairie restoration and recreation improvements, Black Swamp	H			X											X		\$750,000	Village of Portage			Fish and Wildlife Habitat	2009	OH	From State stimulus list	
Maumee Bay	Studies	Water Quality Dynamics in the Western Basin of Lake Erie and Maumee Bay and Western Lake Erie Water Quality Monitoring.	M			X	X												\$750,000	University of Toledo			Water Quality	2010-2014	OH	Estimate needs to be refined.	
Upper Maumee River Watershed	Flood Mitigation	Relocate all mobile homes outside of SFHA	H										X						\$740,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	IN	Acquisition would cost double this amount.	
Portage River Watershed	Stream/ Riparian Restoration	Expand and preserve floodplains, restore wetlands, natural river restoration on North Branch adjacent to the Wood County Historical Society (7,500 linear feet)	H			X	X						X						\$725,000	Portage River Basin Council	OEPA, Lake Erie Protection Fund, Great Lakes Commission		Fish and Wildlife Habitat	2010-2014	OH		
Portage River Watershed	Wastewater	Extend sewer to serve remainder of SR 163 in Portage Twp.	M			X													\$701,000	Catawba Island/ Portage Twp.			Water Quality	2012	OH		
Portage River Watershed	Wastewater	Extend sewer in the Waterford Place Subdivision and Manor Court.	L			X													\$660,000	Village of Oak Harbor			Water Quality	2011	OH		
St. Joseph River Watershed	Combined Sewer Overflow	CSO-LTCP, SSO, MS4 Mandates	H			X						X							\$650,000	Avilla	USEPA, INDEP		Water Quality	2010-2020	IN	From St. Joseph River Watershed Initiative	
Maumee Bay	Habitat Restoration and/ or Protection	RSM Demonstration	H			X	X						X			X			\$650,000	USACE	OEPA, ODNR		Fish and Wildlife Habitat	2010-2011	OH	From USACE Fact Sheet April 2009 Maumee Bay	
Upper Maumee River Watershed	Nutrient Management	Provide erosion control structures & grass waterways - BMP	H			X		X											\$649,206	NRCS	SWCD's , ODNR, IDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.	
Upper Maumee River Watershed	Nutrient Management	Continue support for Conservation Reserve Program (CRP) easement & land retirement needs for filter strips, riparian forests, grass waterways, and windbreak practices.	H			X		X					X		X				\$621,000	USDA - FSA	NRCS, SWCD's , ODNR, IDA		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.	
Auglaize River Watershed	Wastewater	Allentown Pump Station Replacement	H			X													\$600,000	Lima	OEPA		Water Quality	2010	OH	From State stimulus list	
St. Joseph River Watershed	Stream/ Riparian Restoration	Develop and implement a cost-share program for replacement of failing septic systems and demonstrate new or alternative systems, Cedar Creek Watershed.	M			X	X					X						X	\$600,000	St. Joseph River Watershed Initiative	Maumee River Basin Commission		Water Quality	2011-2014	IN	From St. Joseph River Watershed Initiative	
Lower Maumee River Watershed	BMPs/ Green Infrastructure	Develop and implement demonstration projects for the Toledo Area Green Infrastructure Program (Raingarden, rain barrels, etc.).	H			X						X						X	\$600,000	American Rivers	City of Toledo, Lucas County		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2008-2015	OH		
St. Joseph River Watershed	Nutrient Management	Establish additional agronomic researching the watershed to study the problem of soluble phosphorous runoff, learn the cause, and identify strategies and conservation practices to reduce and mitigate phosphorous runoff.	M			X		X					X						\$600,000	USDA ARS	Ohio State University, Michigan State University, Purdue University		Water Quality	2010-2014	IN	Jim Lake, ISDA 3/17/09. Estimate not provided, so estimate provided by URS.	
St. Joseph River Watershed	Pesticides Management	Establish programs that decrease use of pesticides on agricultural fields and urban landscapes (10 year plan)	H			X			X										\$600,000	St. Joseph River Watershed Initiative	ISDA, SWCDs, NRCS		Water Quality	2010-2020	IN	From St. Joseph River Watershed Initiative	
St. Marys River Watershed	BMPs/ Green Infrastructure	Expand demonstration projects and research for alternative CSO controls such as rain gardens, bioretention, etc.	H			X						X						X	\$600,000	OEPA	Ohio Water Development Authority, ODNR		Water Quality	2010-2014	OH	Note Ft. Wayne has program underway.	
Upper Maumee River Watershed	BMPs/ Green Infrastructure	Expand demonstration projects and research for alternative CSO controls such as rain gardens, bioretention, etc.	H			X						X						X	\$600,000	OEPA	Ohio Water Development Authority, ODNR		Water Quality	2010-2014	OH		
Portage River Watershed	BMPs/ Green Infrastructure	Expand demonstration projects and research for alternative CSO controls such as rain gardens, bioretention, etc.	H			X						X							\$600,000	USEPA	Ohio Water Development Authority, ODNR		Water Quality	2010-2014	OH		

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WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives								Cost Estimate	Lead	Support	Existing/Prospective Authority	WLEB Study Category	Time Frame	State	Comments			
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU														
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)														
Portage River Watershed	Wastewater	Extend sanitary sewers along SR 163 west to Danbury/Portage Twp. Line.	L			X																		\$600,000	Danbury Twp.			Water Quality	2010	OH		
St. Joseph River Watershed	Nutrient Management	Increase manure management planning in the Cedar Creek watershed including fencing livestock from streams.	M			X	X	X	X																\$600,000	St. Joseph River Watershed Initiative			Water Quality	2011-2014	IN	
St. Joseph River Watershed	Nutrient Management	Meet and maintain nutrient target levels in the St. Joseph watershed to meet target levels year-round by 2025.	M			X		X	X																\$600,000	St. Joseph River Watershed Initiative	ISDA, SWCDs		Water Quality	2010-2025	IN	From St. Joseph River Watershed Initiative
Tiffin River Watershed	Flood Hazard Mapping	Update floodplain maps and establish base flood elevations	H																						\$600,000	FEMA	County agencies, MDEQ, USGS	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$400,000/ county was original estimate provided but overlaps into other watersheds.
Portage River Watershed	Flood Hazard Mapping	Update floodplain maps and establish base flood elevations.	H																						\$600,000	FEMA	County agencies, MDEQ, USGS	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$400,000/ county was original estimate provided but overlaps into other watersheds.
St. Marys River Watershed	Flood Hazard Mapping	Update floodplain maps and establish base flood elevations.	H																						\$600,000	FEMA	County agencies, MDEQ, USGS	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$400,000/ county was original estimate provided but overlaps into other watersheds.
St. Marys River Watershed	Wetland Protection/ Restoration	Continue support for Wetland Reserve Program (WRP) easement & land retirement needs for wetland restoration.	H			X		X																	\$599,698	NRCS	SWCD's , ODNR, ISDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.
Lower Maumee River Watershed	Stormwater Management	W. Washington Street & Avon Place, replacement of existing storm sewers, large I/I problem.	H			X																			\$595,000	Napoleon	OEPA		Water Quality	2009	OH	TMACOG
Upper Maumee River Watershed	Nutrient Management	Support animal waste utilization and storage structures - BMP	H			X		X																	\$582,510	NRCS	SWCD's , ODNR, IDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
Portage River Watershed	Wastewater	Miscellaneous WWTP improvements.	M			X																			\$558,000	Village of Bellevue			Water Quality	2010	OH	
Portage River Watershed	Stream/ Riparian Restoration	Construct two-stage channel (Bull Creek near Jerry City Road).	M		X	X																			\$550,000	Portage River Basin Council	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	
Blanchard River Watershed	Stormwater Management	Fostoria Phase I, construction of 6100 lineal feet of storm sewers to complete drainage system for poorly-drained, older neighborhood. This project is Phase II of a larger project.	M			X																			\$550,000	Findlay	OEPA, OPWC		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Ohio Stimulus List March 18, 2009
St. Joseph River Watershed	Education	Obtain additional staff to assist with agricultural landowner/operator education and increase conservation planning and practices implementation.	M			X		X															X		\$540,000	SWCD's	St. Joseph Watershed Initiative, ISDA		Water Quality	2009-2011	IN	Jim Lake, ISDA 3/17/09. Three districts for 3 years.
Lower Maumee River Watershed	Flood Control	Southwood storm sewer to abate area flooding	H																						\$537,000	Perrysburg	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list
Blanchard River Watershed	Stormwater Management	Hunter's Creek, 5000 lineal feet of storm sewer construction to eliminate flash-flooding in low-lying neighborhood.	M			X																			\$515,000	Findlay	OEPA, OPWC		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Ohio Stimulus List March 18, 2009
Blanchard River Watershed	Stormwater Management	Fostoria Avenue Phase II, Construction of 6100 lineal feet of storm sewers to complete drainage system for poorly-drained, older neighborhood. This project is Phase II of a larger project.	M			X																			\$510,000	Findlay	OEPA, OPWC		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Ohio Stimulus List March 18, 2009
Auglaize River Watershed	Woody Debris Removal	Clear log jams, junk, debris from streams and ditches.	M																						\$500,000	Counties	County agencies		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$100,000/yr
Ottawa River Watershed	Woody Debris Removal	Clear log jams, junk, debris from streams and ditches.	M																						\$500,000	Counties	County agencies		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$100,000/yr
St. Marys River Watershed	Woody Debris Removal	Clear log jams, junk, debris from streams and ditches.	L																						\$500,000	Counties	County agencies		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$100,000/yr
Tiffin River Watershed	Woody Debris Removal	Clear log jams, junk, debris from streams and ditches.	M																						\$500,000	Counties	County agencies		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$100,000/yr
Upper Maumee River Watershed	Woody Debris Removal	Clear log jams, junk, debris from streams and ditches.	L																						\$500,000	Counties	County agencies		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$100,000/yr
Lower Maumee River Watershed	Flood Studies	Complete a Flood Risk Management Study at Napoleon.	H																						\$500,000	USACE			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	
WLEB	Rural Drainage Improvements	Complete rural drainage pilot program consisting of setting up of a GIS based "asset" management system to determine restoration and maintenance needs and preparation of a guideline manual for implementing a	H			X		X																	\$500,000	ODNR	NRCS, Counties, Soil & Water Conservation Districts		Water Quality	2010-2011	WLEB	
Lower Maumee River Watershed	Stormwater Management	Complete the reconstruction of Stone Ditch.	L			X																			\$500,000	Lucas County			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2010	OH	

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments				
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU														
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)														
Tiffin River Watershed	Watershed/ Community Planning	Comprehensive watershed planning project.	M			X																	\$500,000	SWCD's	Watershed groups, state agencies, OSU extension		Water Quality	2009-2014	MI			
St. Marys River Watershed	Education	Conduct public outreach on private land management, conservation practices and water quality.	M			X																		\$500,000	SWCD's	ODNR, Pheasants Forever, NatureWorks		Water quality	2010-2014	OH		
Upper Maumee River Watershed	Education	Conduct public outreach on private land management, conservation practices and water quality.	L			X																		\$500,000	SWCD's	ODNR, Pheasants Forever, NatureWorks		Water Quality	2010-2014	OH		
Portage River Watershed	Recreation	Construct trail, 2 mi., Slippery Elm trail to Hull Prairie Road.	H								X													\$500,000	Bowling Green	ODNR, OPWC		Resource-Based Recreation	2009	OH	From State stimulus list	
Tiffin River Watershed	Wetland Protection/ Restoration	Constructed wetland studies – before/after impacts.	L		X	X							X											\$500,000	SWCD's	Watershed groups, state agencies		Water Quality	2010-2011	MI		
Maumee Bay	Stream Bank Erosion	Control shoreline erosion at Maumee Bay State Park.	M			X		X																\$500,000	Maumee Bay State Park		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2012	OH			
Ottawa River Watershed	Sanitary Sewer Upgrades	Crabb	M			X																		\$500,000	City of Toledo		Water Quality	2010	OH			
St. Joseph River Watershed	Combined Sewer Overflow	CSO-LTCP, SSO, MS4 Mandates to reduce inflow and infiltration.	H			X					X													\$500,000	Waterloo	USEPA		Water Quality	2010-2020	IN	From St. Joseph River Watershed Initiative	
Lower Maumee River Watershed	Studies	Develop studies to determine specific potential water quality effects from CAFO.	H			X																		\$500,000	TMACOG	PFCS, SWCD, NRCS, Local, State and Federal Governments, Universities		Water Quality	2010-2014	OH		
Ottawa River Watershed	Habitat Restoration and/ or Protection	Establish criteria to evaluate sites and prioritize sites remediation sites. Expand assessments to include ecological risks and human health factors increase funding for research of bioaccumulation of contaminants and their pathways (geotech, environmental analysis and assessment).	M			X	X		X		X									X				\$500,000	OEPA	OHD, Lake Erie commission, Ohio Sea Grant)		Fish and Wildlife Habitat	2010-2012	OH		
Upper Maumee River Watershed	Recreation	Expand and connect an already extensive trail system via planning and construction.	M								X													\$500,000	Park Districts	Counties		Resource-Based Recreation	2010-2014	IN		
Ottawa River Watershed	Flood Mitigation	Expand and protect parks along the Ottawa River, in the interest of protecting floodplains, via measures such as conservation easements, Flood Plain Easements, the wetland reserve program and the CREP program.	M																					\$500,000	NRCS	SWCD, Counties		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2012	OH	Part of recently implemented flood easement program. Steve Davis OK 60909.	
Ottawa River Watershed	BMPs/ Green Infrastructure	Expand demonstration projects and research for alternative CSO controls such as rain gardens, bioretention, etc.	H			X					X													\$500,000	State and local governments	ODNR, NRCS, MDEQ, NRCS		Water Quality	2010-2014	OH		
Tiffin River Watershed	Wastewater	Illicit connection/home sewage treatment system funding assistance.	L			X																		\$500,000	State and Federal agencies	Local health departments		Water Quality	2012-2014	OH		
Auglaize River Watershed	BMPs/ Green Infrastructure	Implement environmentally friendly flood control measures.	H			X					X													\$500,000	County Engineer		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH			
St. Joseph River Watershed	Pesticides Management	Increase buffers and vegetative filters on agricultural fields and along waterways to reduce pesticide runoff (6 year plan), Cedar Creek Watershed.	H			X			X															\$500,000	St. Joseph River Watershed Initiative	SWCDs, NRCS		Water Quality	2010-2016	IN	From St. Joseph River Watershed Initiative	
Auglaize River Watershed	Recreation	Increase the number of access points for canoeing and kayaking.	M								X													\$500,000	ODNR	Counties		Commercial and Recreational Navigation	2010-2014	OH	Need study to confirm access points to validate cost estimate.	
Lower Maumee River Watershed	Flood Studies	Perform study of flooding at the dam and island at Grand Rapids.	M								X													\$500,000	USACE			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH		
Ottawa River Watershed	Stream/ Riparian Restoration	Prairie ditch reconstruction/Detention/Wetlands.	M		X	X																		\$500,000	Lucas County		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH			
Portage River Watershed	Education	Public Outreach on private land management, conservation practices and water quality.	H			X																		\$500,000	SWCD's	ODNR, Pheasants Forever, NatureWorks		Water Quality	2009-2014	OH		
St. Joseph River Watershed	Nutrient Management	Reduce pesticide and nutrient levels in Cedar Creek by 50% based on weekly monitoring during recreational season.	M			X	X	X	X	X			X												\$500,000	St. Joseph River Watershed Initiative		Water Quality	2011-2014	IN	Include monitoring costs.	
Portage River Watershed	Sanitary Sewer Upgrades	Reroute sanitary flow from State Road area via new force main on Christy Chapel Road.	M			X																		\$500,000	Catawba Island/ Portage Twp.		Water Quality	2010	OH			
WLEB	Watershed/ Community Planning	Set-up pilot watershed scale wetland and stream restoration banking program to establish institutional model for expediting economic development while maximizing ecosystem outcomes.	H			X						X		X											\$500,000	OEPA	ODNR, USACE, WLEB Partnership		Fish and Wildlife Habitat	2010-2014	WLEB	
Tiffin River Watershed	Stream Bank Erosion	Study flash flood riverine erosion in Williams County.	M			X		X																\$500,000	FEMA	USACE, County agencies		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012	OH		
Portage River Watershed	Sanitary Sewer Upgrades	Tap residences along SR 19 north of the Village up to Salem-Carroll Road.	L			X																		\$500,000	Village of Oak Harbor		Water Quality	2010-2015	OH			

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WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/Prospective Authority	WLEB Study Category	Time Frame	State	Comments		
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBC	WLEB	HYDRO	DR	FRP	NPC	ENER	EU												
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concerns/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBC)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)												
Auglaize River Watershed	Flood Hazard Mapping	Update floodplain maps and establish base flood elevations.	H																			\$500,000	FEMA	County agencies, MDEQ, USGS	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$400,000/ county was original estimate provided but overlaps into other watersheds.	
Ottawa River Watershed	Flood Hazard Mapping	Update floodplain maps and establish base flood elevations.	H																				\$500,000	FEMA	County agencies, MDEQ, USGS	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$400,000/ county, estimate needs further verification.
Upper Maumee River Watershed	Flood Hazard Mapping	Update floodplain maps and establish base flood elevations.	H																				\$500,000	FEMA	County agencies, MDEQ, USGS	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$400,000/ county was original estimate provided but overlaps into other watersheds.
WLEB	Water Supply	Update Northwest Ohio Water Plan to include assessment of climate change and changes in population growth/land use changes on future adequacy of water supply (ground and surface water) to support regional economic goals and public health needs.	H																				\$500,000	ODNR	OEPA, Counties, Communities, Indiana, Michigan		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012-2014	WLEB	
Auglaize River Watershed	Water Supply	Upgrade river intake to supply reservoir	M																				\$500,000	Delphos	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list
St. Joseph River Watershed	Nutrient Management	Use appropriate federal conservation programs included in the 2008 Farm Bill to provide incentives for livestock producers to develop and implement pasture/grazing management plans including the adoption of seasonal rotational grazing systems.	H			X		X															\$500,000	NRCS	ISDA, St. Joseph River Watershed Initiatives		Water Quality	2010-2014	IN	Jim Lake, ISDA 3/17/09. Steve Davis confirmed+AA238
Lower Maumee River Watershed	Wetland Protection/Restoration	Continue support for Wetland Reserve Program (WRP) easement & land retirement needs for wetland restoration	H			X		X															\$495,995	NRCS	SWCD's, ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.
Blanchard River Watershed	Nutrient Management	Complete 118 CNMPS for existing livestock operations	M			X		X															\$432,000	Hancock SWCD	Putnam SWCD, Hardin SWCD		Water Quality	2010-2011	OH	Commenter
Auglaize River Watershed	Habitat Restoration and/ or Protection	Provide field borders, filter strips, riparian forest buffers, field breaks - BMP	H			X		X															\$423,501	NRCS	SWCD's, ODNR, ISDA		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
WLEB	Rural Drainage Improvements	Conduct watershed scale pilot log jam/woody debris management program to establish guidelines for management of woody debris in the WLEB.	H			X		X															\$400,000	ODNR	NRCS, Soil & Water Conservation Service, County Engineers		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2014	WLEB	\$250,000 per year for 5 years
Tiffin River Watershed	Combined Sewer Overflow	CSO/SSO elimination assistance, long term strategic plans, sewer separation, capacity increase funding.	M			X																	\$400,000	State and Federal agencies	USEPA, OEPA	USEPA	Water Quality	2010	OH	
Upper Maumee River Watershed	Stormwater Management	Hicksville Stormwater Detention Basin	H			X																	\$400,000	Village of Hicksville			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2014	OH	From State stimulus list
Upper Maumee River Watershed	Stormwater Management	Industrial Park detention basin	H			X																	\$400,000	Defiance	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list
Auglaize River Watershed	Stormwater Management	LMI Neighborhood - stormsewer & I/I elimination, open ditch reconstruction and erosion stabilization.	H			X																	\$400,000	Allen County	Allen County Commissioners		Water Quality	2009	OH	From State stimulus list
St. Joseph River Watershed	Wetland Protection/Restoration	Preserve and restore wetlands	H		X	X																	\$400,000	Maumee River Basin Commission	St. Joseph Watershed Initiative		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	Cost Share on existing federal programs. Need \$\$ for federal program broken out by watersheds.
Auglaize River Watershed	Wastewater	Woodbriar Pump Station and Force Main to replace package wastewater treatment plant	H			X																	\$400,000	Lima	OEPA		Water Quality	2009	OH	From State stimulus list
Blanchard River Watershed	Wetland Protection/Restoration	Continue support for Wetland Reserve Program (WRP) easement & land retirement needs for wetland restoration	H			X		X															\$383,762	NRCS	SWCD's, ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.
Portage River Watershed	Sanitary Sewer Upgrades	Extend sewer Behlman north of SR 163.	L			X																	\$370,000	Village of Oak Harbor			Water Quality	2014	OH	
Portage River Watershed	Habitat Restoration and/ or Protection	Provide field borders, filter strips, riparian forest buffers, field breaks - BMP	H			X		X															\$363,420	NRCS	SWCD's, ODNR		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
St. Joseph River Watershed	Flood Hazard Mapping	Complete Flood Hazard Mapping Program for all unstudied areas.	H																				\$350,000	Maumee River Basin Commission	St. Joseph Watershed Initiative		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2014	IN	Indiana portion only, note probably applies to rest of watershed but status of floodplain mapping not determined at time of matrix creation.
Lower Maumee River Watershed	Education	Purchase Kiel Farm to develop demonstration sustainable farm.	H			X																	\$343,000	Toledo Metropolitan Park District			Fish and Wildlife Habitat	2009-2010	OH	
Portage River Watershed	Wetland Protection/Restoration	Restore wetlands - BMP	H			X		X															\$338,722	NRCS	SWCD's, ODNR		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
Auglaize River Watershed	Flood Control	Storm sewer replacement in area of persistent street and basement flooding	H																				\$330,000	Kalida	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list
St. Marys River Watershed	Woody Debris Removal	Continue Stream Obstruction Removal Program - Special Area of Concern, Section between Adams/Allen County Line and I-469 & Annual Reconnaissance	H																				\$325,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	65K/year/5years
Lower Maumee River Watershed	Habitat Restoration and/ or Protection	Provide field borders, filter strips, riparian forest buffers, field breaks - BMP	H			X		X															\$303,452	NRCS	SWCD's, ODNR		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Acquire conservation easement on 1000 acres of land along the main stream of the St. Joseph River	H		X	X																	\$300,000	Black Swamp Conservancy	St. Joseph Watershed Initiative		Fish and Wildlife Habitat	2010-2014	OH	From St. Joseph River Watershed Initiative

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WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/Prospective Authority	WLEB Study Category	Time Frame	State	Comments					
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU															
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)															
Portage River Watershed	Stream/ Riparian Restoration	Construct two-stage channel (Fenburg Ditch – 2,500 linear feet).	M			X																			\$300,000	Portage River Basin Council	OEPA, Great Lakes Commission		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH		
St. Joseph River Watershed	Stream/ Riparian Restoration	Continue BST analysis program in the CCW including sampling and updating SJRWI WQ database.	H			X	X	X																		\$300,000	St. Joseph River Watershed Initiative		Water Quality	2011-2014	IN		
Upper Maumee River Watershed	Woody Debris Removal	Continue Stream Obstruction Removal Program - Specific area of concern, 2 mile section downstream of I-469	H																							\$300,000	Maumee River Basin Commission		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	\$60K/year/5 years	
Auglaize River Watershed	Studies	Develop plans to construct sanitary sewers in the unsewered areas of greater Delphos.	M			X																				\$300,000	Delphos		Water Quality	2011-2014	OH		
Blanchard River Watershed	Watershed/ Community Planning	Establish overall watershed based recreation based plan (multi-jurisdictional) that identifies gaps, priorities, and potential multi-objective projects to expand recreation opportunities, reduce flooding risks, and enhance attractiveness of area to prospective employees.	H			X									X											\$300,000	Local stakeholders		Fish and Wildlife Habitat	2010-2012	OH		
Portage River Watershed	Stream/ Riparian Restoration	Expand and preserve floodplains, restore wetlands, natural river restoration on East Branch btw SR 12 and CR 126.	H		X	X																				\$300,000	ODOT	OEPA, Great Lakes Commission, County engineers, ODNR		Fish and Wildlife Habitat	2010-2014	OH	
WLEB	Brownfield Remediation	Identify all brownfields in the Western Lake Erie Basin. Prioritize brownfields for remediation.	M			X		X	X																	\$300,000	OEPA	IDEM, MDEQ		Water quality	2009	OH	
Lower Maumee River Watershed	Watershed/ Community Planning	PCS, as the lead local organization for the Maumee RAP, needs financial assistance to increase local staffing levels to two FTEs for project development, implementation and local "buy-in" of projects that will be strategically conducted with the goal of delisting the Maumee AOC 2010-2015 - personnel and operations	H			X	X	X	X	X																\$300,000	Partners For Clean Streams (PCS)	USEPA, NRCS, OEPA		Water quality	2010-2015	OH	Provided by PCS, Kris Patterson, 73009
St. Joseph River Watershed	Watershed/ Community Planning	Produce watershed plans for the HUC-11 subwatersheds which have not yet been completed	H			X		X																		\$300,000	St. Joseph River Watershed Initiative		Water Quality	2010-2014	IN	From St. Joseph River Watershed Initiative	
St. Joseph River Watershed	Flood Mitigation	Provide cost-share assistance on sediment reducing best management practices, Cedar Creek Watershed	H												X											\$300,000	St. Joseph River Watershed Initiative	St. Joseph Watershed Initiative		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Purchase 100 acres adjacent to La Tierra Sanctuary for Copper Belly Water snake habitat	H		X										X											\$300,000	Blue Heron Ministries, Inc.	St. Joseph River Watershed Initiative		Fish and Wildlife Habitat	2010-2014	IN	From St. Joseph River Watershed Assessment
Lower Maumee River Watershed	Recreation	Purchase 2 parcels to connect Oak Openings trail and Secor Park.	H																							\$300,000	Toledo Metropolitan Park District	PFCS, TMACOG		Fish and Wildlife Habitat	2008-2010	OH	
Lower Maumee River Watershed	Stream Bank Erosion	Repair bank erosion along Swan Creek.	M			X		X																		\$300,000	City of Toledo	USACE		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2012	OH	
Lower Maumee River Watershed	Stormwater Management	Toledo Botanical Gardens pond improvements	H			X																				\$300,000	Metroparks Toledo	ODNR, City of Toledo		Water Quality	2009	OH	Steve Davis, "Ruvolo, Jane" <Jane.Ruvolo@mail.house.gov>
Lower Maumee River Watershed	Watershed/ Community Planning	Update Toledo Metropolitan Park District Master Plans.	L												X											\$300,000	Toledo Metropolitan Park District		Resource-Based Recreation	2009-2011	OH		
Blanchard River Watershed	Wastewater	Westside Interceptor replacement	H			X																				\$300,000	Bluffton	OEPA		Water Quality	2009	OH	From State stimulus list
Portage River Watershed	Stream Flow & Quality Monitoring	Annual O&M of installed stream gages.	H												X											\$272,000	USGS	ODNR	USGS	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	Dick Bartz, assumed \$13,600annual O&M per gage time 4 times 5 years.
WLEB	Habitat Restoration and/ or Protection	Complete GAP Analysis, terrestrial habitat.	H		X	X																				\$250,000	USGS	ODNR, US F&WS		Fish and Wildlife Habitat	2010-2012	WLEB	Dick Bartz, estimated costs by URS.
St. Marys River Watershed	Woody Debris Removal	Develop selective, low impact debris-dam (log jam) removal strategy/program.	H																							\$250,000	County Engineer		Water quality	2010-2014	OH		
Upper Maumee River Watershed	Woody Debris Removal	Develop selective, low impact debris-dam (log jam) removal strategy/program.	M																							\$250,000	County Engineer		Water Quality	2010-2014	OH		
Portage River Watershed	Woody Debris Removal	Develop selective, low impact debris-dam (log jam) removal strategy/program.	H		X																					\$250,000	Portage River Basin Council		Water Quality	2010-2014	OH		
Auglaize River Watershed	Stormwater Management	LMI Neighborhood - storm sewer upgrade and drainage ditch erosion stabilization	H			X																				\$250,000	Allen County	Allen County Commissioners		Water Quality	2009	OH	From State stimulus list
Tiffin River Watershed	Woody Debris Removal	Logjam studies to identify upstream causes – GIS mapping, removal when needed.	M																							\$250,000	SWCD's	State agencies, watershed groups		Water Quality	2010-2014	OH	\$50,000/area
Tiffin River Watershed	Studies	Soil Phosphorus, Pollutant Loading Studies and databank.	H			X																				\$250,000	State agencies	USGS		Water Quality	2010	OH	
Auglaize River Watershed	Stormwater Management	Storm sewer and I/I elimination, 3,900 feet of waterway regrading or reconstruction, 3400 LF of storm sewer replacement	H			X																				\$250,000	Allen County Engineer	Allen County Commissioners		Water Quality	2009	OH	From State stimulus list
Tiffin River Watershed	Watershed/ Community Planning	Watershed Management Plan needed for Williams County.	M			X																				\$250,000	SWCD's	County agencies, incorporated areas		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2012	OH	

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WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/Prospective Authority	WLEB Study Category	Time Frame	State	Comments	
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU											
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)											
Tiffin River Watershed	Nutrient Management	Continue support for Conservation Reserve Program (CRP) easement & land retirement needs for filter strips, riparian forests, grass waterways, and windbreak practices.	H			X	X															\$244,125	NRCS	SWCD's , ODNR, MDA, MDNR		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.
St. Joseph River Watershed	Watershed/Community Planning	Funding for full-time watershed coordinator.	H		X	X		X														\$240,000	St. Joseph River Watershed Initiative	ISDA, Maumee River Basin Commission, St. Joseph River Watershed Initiative		Water Quality	2010-2012	IN	Jim Lake, ISDA 3/17/09
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Acquire nature preserve in the Nettle Creek Region (5 year plan)	H		X	X								X								\$230,000	St. Joseph River Watershed Initiative			Fish and Wildlife Habitat	2010-2014	IN	From St. Joseph River Watershed Initiative
St. Joseph River Watershed	Water Supply	Decrease pesticide loading in sub-watersheds so raw water meets drinking water quality standards at the Mayhew Road bridge site and to reduce Ft. Wayne Treatment Costs.	H						X		X											\$230,000	St. Joseph River Watershed Initiative			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	From St. Joseph River Watershed Initiative
Portage River Watershed	Watershed/Community Planning	Develop and implement a watershed plan.	M	X	X	X		X		X												\$225,000	Portage River Basin Council			Water Quality	2010-2014	OH	\$45,000 annually
Portage River Watershed	Watershed/Community Planning	Provide technical assistance for comprehensive watershed planning.	H																			\$225,000	Portage River Basin Council			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	\$45,000/annually
Portage River Watershed	Stream/ Riparian Restoration	Restore oxbows on streams cut off during previous channel modification projects (18 sites along major streams totaling 31,000 feet).	H		X	X							X									\$220,000	Portage River Basin Council	OEPA, Lake Erie Protection Fund, Great Lakes Commission, Wood County Engineer		Fish and Wildlife Habitat	2010-2014	OH	\$220,000 (reconnection of 1,000 foot long oxbow, does not include land acquisition and design)
St. Joseph River Watershed	Wastewater	Implement residential incentives for flood control and septic tank elimination	H			X					X											\$213,000	Ft. Wayne			Water Quality	2010-2030	IN	From St. Joseph River Watershed Initiative
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Acquire land to preserve/protect natural resources	H		X	X					X				X	X						\$210,000	ACRES Land Trust			Fish and Wildlife Habitat	2010-2014	IN	From St. Joseph River Watershed Initiative
Blanchard River Watershed	Stream Flow & Quality monitoring	Annual O&M of installed WQ stream gages.	H			X				X												\$204,000	USGS	ODNR		Water Quality	2010-2014	OH	Dick Bartz, USGS, \$13,600 * 3 times 5 years.
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Provide field borders, filter strips, riparian forest buffers, field breaks - BMP	H			X		X														\$203,938	NRCS	SWCD's , ODNR, ISDA, MDNR, MDA		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.
St. Marys River Watershed	Habitat Restoration and/ or Protection	Provide field borders, filter strips, riparian forest buffers, field breaks - BMP	H			X		X														\$203,789	NRCS	SWCD's , ODNR, ISDA		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.
Auglaize River Watershed	Flood Control	Alleviate flooding streets and properties	H										X									\$200,000	Ottoville	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2014	OH	From State stimulus list
Lower Maumee River Watershed	BMPs/ Green Infrastructure	Assess the effectiveness of BMP's for non-point sources.	M			X		X			X											\$200,000	TMACOG	NRCS, PFCS, LSWCD		Water Quality	2008-2010	OH	
Ottawa River Watershed	Studies	Coastal Engineering Investigations.	L			X						X										\$200,000	ODNR	MDEQ, OEAP, Corps		Fish and Wildlife Habitat	2010	OH	
St. Joseph River Watershed	Watershed/Community Planning	Collaborate with Michigan and Ohio communities and stakeholders to implement comprehensive watershed approach to solving problems.	H								X											\$200,000	St. Joseph River Watershed Initiative	Maumee River Basin Commission		Water Quality	2011-2014	IN	Lead by St. Joseph Watershed Initiative but includes Ohio, Michigan.
St. Marys River Watershed	Flood Mitigation	Complete Houk Ditch/Trier Ditch overflow evaluation to determine feasibility of designating path as an Impact Area and recommended measures.	H										X									\$200,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2011	IN	Per MRBC
Blanchard River Watershed	Rural Drainage Improvements	Conduct pilot tests and research on rural drainage ditch management (2-stage ditch design).	H			X		X					X									\$200,000	OSU School of Agriculture	NRCS		Water Quality	2010-2012	OH	
Portage River Watershed	Stormwater Management	Construct larger on-site detention ponds for future development.	M			X							X									\$200,000	County Engineer	Developers		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	5-acre - \$2,300; 25-acre - \$16,800; 100-acre - \$76,300
St. Marys River Watershed	Stormwater Management	Construct larger on-site detention ponds for future development.	L			X							X									\$200,000	County Engineer	Developers		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	5-acre - \$2,300; 25-acre - \$16,800; 100-acre - \$76,300
Upper Maumee River Watershed	Stormwater Management	Construct larger on-site detention ponds for future development.	L			X							X									\$200,000	County Engineer	County engineers, developers		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	5-acre - \$2,300; 25-acre - \$16,800; 100-acre - \$76,300
Lower Maumee River Watershed	Regulatory	Develop CAFO water quality management regulations.	M			X																\$200,000	TMACOG	Local, State and Federal Governments, PFCS		Water Quality	2010-2012	OH	\$10,000/agency
Lower Maumee River Watershed	Flood Studies	Develop plan to alleviate flooding along Swan Creek due to seasonal high water in Maumee and channel restrictions.	H								X		X									\$200,000	City of Toledo	USACE		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2010	OH	
St. Joseph River Watershed	Nutrient Management	Establish No-till/ Strip/ Till verses conventional tillage comparison plots to illustrate and document environmental benefits/ cost savings and improved net returns.	H			X		X					X									\$200,000	SWCD's	St. Joseph Watershed Initiative, ISDA		Water Quality	2009-2011	IN	Jim Lake, ISDA 3/17/09
St. Joseph River Watershed	Nutrient Management	Establish nutrient management comparison plots to document WQ benefits, cost savings, and improved net returns by improving fertilizer application methods based on soil testing by soil management zones.	M			X		X					X									\$200,000	SWCD's	St. Joseph Watershed Initiative, ISDA, Producer Groups, Industry		Water Quality	2009-2014	IN	Jim Lake, ISDA 3/17/09

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/Prospective Authority	WLEB Study Category	Time Frame	State	Comments	
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU											
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)											
Ottawa River Watershed	Conservation	Increase the percentage of agricultural acreage in the watershed under conservation tillage practices – sponsors.	M		X								X									\$200,000	ODNR	OEPA, ODA	NRCS	Water Quality	2011	OH	
Portage River Watershed	Flood Mitigation	Mandate no floodplain filling or development in the floodplain/buffer area. Buy adjacent land or easements on adjacent land.	H																			\$200,000	Portage River Basin Council			Water Quality	2009-2014	OH	
Lower Maumee River Watershed	Flood Control	Orchard drive storm sewer flood reduction project	M																			\$200,000	Leipsic	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list
St. Marys River Watershed	Watershed/Community Planning	Provide funding for watershed coordinator.	H										X									\$200,000	ODNR	OEPA		Water quality	2010-2014	OH	\$50000 annually
Upper Maumee River Watershed	Watershed/Community Planning	Provide technical assistance for comprehensive watershed planning.	H			X																\$200,000	SWCD's	Plan Commissions		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	
Auglaize River Watershed	Conservation	Purchase farmland and restore it to native habitat along Van Wert County Nature Trail.	H		X								X									\$200,000	Van Wert			Fish and Wildlife Habitat	2010-2014	OH	
Lower Maumee River Watershed	Wetland Protection/Restoration	Restore wetlands in or near Oak Openings.	H		X	X																\$200,000	The Nature Conservancy	Toledo Metroparks, counties and local governments, Ducks Unlimited.		Fish and Wildlife Habitat	2008-2010	OH	
Lower Maumee River Watershed	Stream Bank Erosion	Stabilize stream bank at Otsego Park.	M			X		X														\$200,000	WCPD			Water Quality	2008-2010	OH	
Tiffin River Watershed	Studies	Study on sediment load carried by the Tiffin impacting Lake Erie.	M			X																\$200,000	NRCS	State and federal agencies		Water Quality	2009-2011	OH	Steve Davis, OK 60909
Ottawa River Watershed	Conservation	Use federal and state conservation reserve programs to purchase easements on flood plain and upland wetlands.	H		X								X									\$200,000	Counties	County Agencies	NRCS	Fish and Wildlife Habitat	2010-2014	OH	
Upper Maumee River Watershed	Conservation	Use federal and state conservation reserve programs to purchase easements on flood plain and upland wetlands.	H		X								X									\$200,000	Counties	County agencies		Fish and Wildlife Habitat	2010-2014	OH	
Lower Maumee River Watershed	Nutrient Management	Prepare Comprehensive Nutrient Management Plans - BMP	H			X		X														\$190,347	NRCS	SWCD's, ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
Tiffin River Watershed	Habitat Restoration and/ or Protection	Provide field borders, filter strips, riparian forest buffers, field breaks -BMP	H			X		X														\$181,988	NRCS	SWCD's , ODNR, MDA, MDNR		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
Auglaize River Watershed	Stormwater Management	Storm sewer replacement	H			X																\$175,000	Allen County Engineer	Allen County Commissioners		Water Quality	2009	OH	From State stimulus list
St. Joseph River Watershed	Stream Bank Erosion	Construct 8 miles of waterways to control erosion	M			X		X														\$168,960	DeKalb County SWCD	St. Joseph River Watershed Initiative		Water Quality	2010-2014	IN	From St. Joseph River Watershed Initiative
Auglaize River Watershed	Nutrient Management	Prepare Comprehensive Nutrient Management Plans - BMP	H			X		X														\$162,569	NRCS	SWCD's , ODNR, ISDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
Blanchard River Watershed	Habitat Restoration and/ or Protection	Provide field borders, filter strips, riparian forest buffers, field breaks -BMP	H			X		X														\$161,365	NRCS	SWCD's , ODNR		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
St. Joseph River Watershed	Woody Debris Removal	Continue to implement stream obstruction removal program.	M																			\$160,000	Maumee River Basin Commission	St. Joseph Watershed Initiative		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	IN	
Auglaize River Watershed	Wastewater	Sanitary sewer lines for new WWTP	H			X																\$159,000	Wapakoneta	OEPA		Water Quality	2009	OH	From State stimulus list
Upper Maumee River Watershed	Wetland Protection/Restoration	Continue support for Wetland Reserve Program (WRP) easement & land retirement needs for wetland restoration.	H			X		X														\$158,533	NRCS	SWCD's , ODNR, IDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.
Portage River Watershed	Recreation	Connect SR 53 Bikeway & Greenway with NCIT & Ottawa National Wildlife Refuge.	M										X									\$150,000	ODNR	Sandusky County Park District, Ottawa County, Black Swamp Conservancy		Resource-Based Recreation	2010-2011	OH	Engineering and construction estimate needed.
St. Joseph River Watershed	Education	Continue public education and outreach to reduce flood losses	H			X																\$150,000	Maumee River Basin Commission	St. Joseph Watershed Initiative		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	
St. Marys River Watershed	Flood Mitigation	Continue to identify and provide cost-share match to landowners (agriculture) to compensate them for land conversion programs (floods, riparian areas, etc.)	H																			\$150,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	
St. Joseph River Watershed	Flood Mitigation	Continue to identify and provide cost-share match to landowners to compensate them for land conversion programs (floodplains, riparian areas, etc.)	H																			\$150,000	Maumee River Basin Commission	St. Joseph Watershed Initiative		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	
Upper Maumee River Watershed	Flood Mitigation	Continue to identify and provide cost-share match to landowners to compensate them for land conversion programs (floods, riparian areas, etc.)	H																			\$150,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	
Ottawa River Watershed	Flood Hazard Mapping	Enhance data and mapping of flood prone areas outside the floodplain. Development of floodplain maps for local streams not on FIRMs or county maps.	M																			\$150,000	Counties	SWCD, Regional Planning Commission	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	
Upper Maumee River Watershed	Flood Hazard Mapping	Enhance data and mapping of flood prone areas outside the floodplain. Development of floodplain maps for local streams not on FIRMs or county maps.	M																			\$150,000	Counties	County agencies, SWCD, Regional Planning Commission	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives								Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments				
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU															
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concerns/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)															
Upper Maumee River Watershed	Recreation	Establish recreational pathways along filter strips serving as greenways.	L											X											\$150,000	Soil and Water Conservation Districts	NRCS, Maumee River Basin Commission		Resource-Based Recreation	2010-2012	IN	comment at Ft. Wayne meeting	
Blanchard River Watershed	Watershed/Community Planning	Hire watershed coordinator to support watershed planning restoration.	H			X																				\$150,000	Blanchard River Watershed Partners			Water Quality	2009	OH	
Lower Maumee River Watershed	Rural Drainage Improvements	Increase ditch maintenance and cleanout efforts.	M			X		X																		\$150,000	Wood County	Lucas County		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	
Tiffin River Watershed	Flood Control	Lincoln street storm sewer, new sewer to alleviate local flooding	H																							\$150,000	West Unity	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list
Upper Maumee River Watershed	Flood Studies	Perform hydraulics/hydrology studies.	L											X												\$150,000	County Engineer	USACE, USGS		Commercial and Recreational Navigation	2014	OH	Need more project details
Tiffin River Watershed	Flood Mitigation	Route 127 in Defiance flood mitigation.	H																							\$150,000	ODOT	FEMA	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
St. Joseph River Watershed	Flood Mitigation	Implement similar model stormwater management ordinance established for Indiana in Michigan and Ohio portions that promote "No Adverse Impacts".	M																							\$140,000	St. Joseph River Watershed Initiative	ODNR, Maumee River Basin Commission		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	Applies to Michigan and Ohio Portion but lead by watershed group. Note: Ohio has model ordinance also.
Portage River Watershed	Wastewater	Sludge Handling	M			X																				\$140,000	Village of Bellevue			Water Quality	2009	OH	
St. Marys River Watershed	Nutrient Management	Prepare Comprehensive Nutrient Management Plans - BMP	H			X		X																		\$128,742	NRCS	SWCD's, ODNR, ISDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.
Ottawa River Watershed	Recreation	Develop a nature walk garden on UT campus with new river paths/walkways connecting trails to trails bikeway.	L											X												\$125,000	University of Toledo			Resource-Based Recreation	2011	OH	
Tiffin River Watershed	Education	Ditch maintenance education to prevent erosion and sedimentation.	H			X																				\$125,000	SWCD's	County drainage agencies, watershed groups		Water Quality	2010-2014	OH	
Blanchard River Watershed	Recreation	Phase I, approximately 3500 linear ft. of a Bike-Ped Pathway to connect residential neighborhoods, a Senior Living facility and a nature preserve to the core of the Village	M											X												\$125,000	Bluffton	ODNR		Resource-Based Recreation	2009	OH	Ohio Stimulus List March 18, 2009
Lower Maumee River Watershed	Water Supply	Prepare Source Water Protection (SWAP) Plan - Toledo	H			X								X												\$125,000	City of Toledo	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Auglaize River Watershed	Conservation	Spencerville Outdoor Learning Center habitat restoration	H			X								X												\$125,000	Lima	ODNR, Soil & Water Conservation Service		Fish and Wildlife Habitat	2009	OH	From State stimulus list
Portage River Watershed	Stream Flow & Quality Monitoring	Install additional stream gages (4 gages).	H																							\$120,000	USGS	ODNR	USGS	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
Portage River Watershed	Conservation	Kenwood/Napoleon, Simpson Garden Park tree planting, and 30 acres of prairie habitat restoration	H			X								X												\$120,000	Bowling Green	ODNR, OPWC		Fish and Wildlife Habitat	2009	OH	From State stimulus list
Tiffin River Watershed	Dam Removal	Study Dam Hazards in Hillsdale County Michigan.	M			X																				\$120,000	USACE	County agencies, MDEQ	ODNR	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH	
Lower Maumee River Watershed	Stormwater Management	Replace damaged stormsewers	H			X																				\$118,250	Milton Center	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	From State stimulus list
Portage River Watershed	Flood Mitigation	Adopt flood plain, stormwater policies/ordinances/public education.	M																							\$115,000	ODNR	Ohio Environmental Education Fund, Great Lakes Commission		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2013	OH	
St. Marys River Watershed	Education	Adopt flood plain, stormwater policies/ordinances/public education.	M																							\$115,000	ODNR	IDNR, IDEM, Maumee River Basin Commission		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2013	OH	
Upper Maumee River Watershed	Education	Adopt flood plain, stormwater policies/ordinances/public education.	M			X																				\$115,000	ODNR	IDNR, IDEM, Maumee River Basin Commission		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2013	OH	
Auglaize River Watershed	Stormwater Management	Storm sewer, open ditch, I/I; 2,175 LF storm sewer and 5,000 LF of Open ditch erosion stabilization	H			X																				\$112,153	Allen County Engineer	Allen County Commissioners		Water Quality	2009	OH	From State stimulus list
Auglaize River Watershed	Flood Control	Replace undersized aged storm sewers to alleviate flooding	H																							\$105,000	Cloverdale	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	From State stimulus list
Lower Maumee River Watershed	Stormwater Management	Replacement of storm sewer, to solve large amount of basement flooding - Dodd Street Improvements+C1	H			X																				\$105,000	Napoleon	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	TMACOG
St. Joseph River Watershed	Wetland Protection/Restoration	Restore wetlands - BMP	H			X		X																		\$104,358	NRCS	SWCD's, ODNR, ISDA, MDNR, MDA		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.
Portage River Watershed	Dam Removal	Low-head dam removal near Route 51, and the Ohio Turnpike (upstream and downstream of Elmore).	M			X	X																			\$102,000	Ottawa County		ODNR	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	Includes both sites
Portage River Watershed	Dam Removal	Assess the environmental and economic benefit of tributary dams and encourage removal where possible, or modification for fish passage.	H			X																				\$100,000	Portage River Basin Council	TMACOG, ODNR	ODNR	Fish and Wildlife Habitat	2010-2011	OH	

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives								Cost Estimate	Lead	Support	Existing/Prospective Authority	WLEB Study Category	Time Frame	State	Comments	
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU												
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)												
Ottawa River Watershed	Sanitary Sewer Upgrades	Cobblestone – Remove pump and ditch bypass	M			X															\$100,000	Lucas County			Water Quality	2010	OH			
Auglaize River Watershed	Stream/ Riparian Restoration	Complete 2 miles of one-sided stream channel restoration and 1700 feet of over-wide channel design along Beach Tree Run, at Defiance, Ohio.	M		X	X															\$100,000	Defiance SWCD			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH			
Auglaize River Watershed	Flood Control	Complete 2000ft of over-wide channel reconstruction as part of a mitigation project along Sugar Creek, Lima, Ohio.	M								X										\$100,000	Allen SWCD			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH			
Auglaize River Watershed	Studies	Complete new biological water quality studies for the lower Auglaize River and its tributaries.	H			X															\$100,000	OEPA			Water Quality	2010-2012	OH			
Tiffin River Watershed	Stream/ Riparian Restoration	Complete restoration plan to assess stream, wetland, and riparian restoration opportunities (acquisition, restoration, protection).	H			X															\$100,000	State and federal agencies	Local conservation organizations			Fish and Wildlife Habitat	2010	OH		
WLEB	Nutrient Management	Conduct evaluation of long term impacts of ethanol production on conservation practices and BMP implementation to determine policy changes needed to prevent backsliding.	H			X		X				X									\$100,000	NRCS	Ohio Department of Agriculture, County Soil & Water Conservation Districts			Water Quality	2011-2012	WLEB	WLEB Counties, 20 counties@\$50,000/county	
Maumee Bay	Recreation	Construct new boat access and mooring facilities.	M									X									\$100,000	ODNR			Resource-Based Recreation	2012	OH			
Maumee Bay	Recreation	Construct transient slips.	M									X									\$100,000	City and private marinas			Commercial and Recreational Navigation	2010-2012	OH			
St. Joseph River Watershed	Nutrient Management	Decrease the acreage of goose friendly habitat, especially adjacent to waterways, in to decrease the number of geese and fecal contamination from nuisance waterfowl, Cedar Creek Watershed	M			X	X	X	X			X									\$100,000	St. Joseph River Watershed Initiative			Water Quality	2010	IN			
St. Joseph River Watershed	Education	Develop and implement Floodplain management curriculum into 4th grade classes.	M			X													X		\$100,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2014	IN	Applies also to St. Marys, Upper Maumee Watersheds.		
WLEB	Studies	Develop efficient relative loading model assess specific actions ability to reduce pollutants loadings from specific watersheds in the WLEB and maximize overall load reductions for improving water quality.	H			X		X													\$100,000	NRCS	USACE, USGS, USACE			Water Quality	2010-2011	WLEB	Steve Davis, OK 60909	
Blanchard River Watershed	Wastewater	Eastside Interceptor replacement	H			X															\$100,000	Bluffton	OEPA			Water Quality	2009	OH	From State stimulus list	
Portage River Watershed	Watershed/ Community Planning	Eliminate point source and nonpoint sources of chemical and bacterial contamination.	M			X		X													\$100,000	USEPA			Water Quality	2010-2014	OH			
Portage River Watershed	Watershed/ Community Planning	Encourage and assist with development of HSTS plans to mitigate bacteria and nutrients from reaching streams.	M			X															\$100,000	County Health Department	OEPA			Water Quality	2010	OH		
St. Marys River Watershed	Sanitary Sewer Upgrades	Encourage and assist with development of HSTS plans to mitigate bacteria and nutrients from reaching streams.	M			X															\$100,000	County Health Department	OEPA			Water quality	2010	OH		
Upper Maumee River Watershed	Sanitary Sewer Upgrades	Encourage and assist with development of HSTS plans to mitigate bacteria and nutrients from reaching streams.	M			X															\$100,000	County Health Department	County Health Departments, OEPA			Water Quality	2010	OH		
Auglaize River Watershed	Flood Hazard Mapping	Enhance data and mapping of flood prone areas outside the floodplain. Develop floodplain maps for local streams not on FIRMs or county maps.	M									X									\$100,000	Counties	County agencies, SWCD, Regional Planning Commission	FEMA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH		
Portage River Watershed	Flood Hazard Mapping	Enhance data and mapping of flood prone areas outside the floodplain. Development of floodplain maps for local streams not on FIRMs or county maps.	M									X									\$100,000	Counties	County agencies, SWCD, Regional Planning Commission	FEMA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH		
St. Marys River Watershed	Flood Hazard Mapping	Enhance data and mapping of flood prone areas outside the floodplain. Development of floodplain maps for local streams not on FIRMs or county maps.	M									X									\$100,000	Counties	County agencies, SWCD, Regional Planning Commission	FEMA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH		
Tiffin River Watershed	Flood Hazard Mapping	Enhance data and mapping of flood prone areas outside the floodplain. Development of floodplain maps for local streams not on FIRMs or county maps.	M									X									\$100,000	Counties	County agencies, SWCD, Regional Planning Commission	FEMA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH		
WLEB	Studies	Enhance tool to track projects and benefits of completed, current, and future potential action investments in the watershed.	H	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				\$100,000	USACE	WLEB Partnership			Water Quality	2010	WLEB	
St. Joseph River Watershed	Stream/ Riparian Restoration	Establish a watershed network that shares information on objectives/results of drainage activities and the impact on habitat for species of concern and develop ways to mitigate undesired outcomes	M			X		X													\$100,000	The Nature Conservancy	ISDA, Maumee River Basin Commission			Fish and Wildlife Habitat	2011-2014	IN	Joe Draper, TNC 3/19/09	
St. Marys River Watershed	Recreation	Establish recreational pathways along filter strips serving as greenways.	L									X									\$100,000	Park Districts	NRCS			Resource-Based Recreation	2011-2014	OH		
Upper Maumee River Watershed	Watershed/ Community Planning	Establish watershed group on the Upper Maumee River	H			X		X				X								X	\$100,000	Maumee River Basin Commission	Communities, NGO's, resource agencies			Water Quality	2010	IN		
Tiffin River Watershed	Stream Bank Erosion	Evaluate stream bank erosion in Williams County and determine priorities for stabilization.	H			X		X													\$100,000	SWCD's	County agencies, USEPA, watershed groups			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2012	OH		
Lower Maumee River Watershed	Studies	Evaluate the relocation of the shipping channel in Toledo near I-75, to provide a turning area for commercial shipping.	M										X								\$100,000	Toledo-Lucas County Port Authority	USACE	U.S. USACE			Commercial and Recreational Navigation	2012	OH	Confirm project
Tiffin River Watershed	Conservation	Expand habitat to support recovery of Bald Eagle in Muddy Creek watershed	H		X							X									\$100,000	USFWS			Fish and Wildlife Habitat	2010-2014	MI			

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives								Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments				
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU															
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)															
Tiffin River Watershed	Flood Studies	Flash flood study needed in Williams County.	M													X		X							\$100,000	FEMA	County agencies		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH		
Upper Maumee River Watershed	Stream/ Riparian Restoration	Formulate non-structural flood damage and ecosystem restoration projects to provide recreational opportunities.	M		X	X																				\$100,000	USACE	various stakeholders		Resource-Based Recreation	2010	OH	
Tiffin River Watershed	Studies	Groundwater protection plan.	M													X										\$100,000	Village of Fayette			Water Quality	2010	OH	
St. Joseph River Watershed	Stream Bank Erosion	Identify actively eroding stream banks and pursue state and federal funding to assist with stabilization costs	H			X																				\$100,000	St. Joseph River Watershed Initiative			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	IN	Jim Lake, ISDA 3/17/09
Ottawa River Watershed	Stream Bank Erosion	Identify actively eroding streambanks for which assistance with stabilization costs may be available under state and federal grant programs.	M			X																				\$100,000	Counties	County Agencies, OEPA, Corps of Engineers, ODNR, NRCS, SWCD's		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	
Tiffin River Watershed	Stream/ Riparian Restoration	Identify funding plan to implement restoration plan	H			X																				\$100,000	State and federal agencies	State and federal agencies, local conservation organizations.		Fish and Wildlife Habitat	2010	OH	
Ottawa River Watershed	Stream Bank Erosion	Implement buffer practices to reforest strategic areas such as riparian corridors and windbreaks. Continue the existing progress by landowners with conservation practices such as the use of conservation tillage, filter strips, grassed waterways and cropland conversion to reduce erosion and sediment delivery. Educate landowners regarding funding programs available for adopting these practices	H			X																				\$100,000	Counties	County Agencies		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	
Portage River Watershed	Rural Drainage Improvements	Implement innovate projects to manage discharges from field tile collection systems.	L			X																				\$100,000	NRCS	SWCD, ODNR		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2014	OH	Steve Davis, OK 60909
St. Marys River Watershed	Regulatory	Implement laws and rules for new permitting requirements and operation of private home septic systems. (i.e., permits to install, operational assessments, funding mechanisms at both state and local levels to cover costs of sewage disposal program activities, public education concerning operation and maintenance).	M			X																				\$100,000	County Commissioners	Health Departments		Water quality	2009	OH	
Ottawa River Watershed	Wastewater	Implement laws and rules for new permitting requirements and operation of private home septic systems. (i.e., permits to install, operational assessments, funding mechanisms at both state and local levels to cover costs of sewage disposal program activities, public education concerning operation and maintenance).	M			X																				\$100,000	State and local governments			Water Quality	2010-2012	OH	Rough estimate.
Blanchard River Watershed	Watershed/ Community Planning	Link ongoing Sec. 205 feasibility results that create local partnerships opportunities to enhance recreation and open space opportunities for area residents.	H																							\$100,000	USACE	Local stakeholders		Fish and Wildlife Habitat	2011	OH	
St. Joseph River Watershed	Nutrient Management	Maintain the important but fragile and diminishing amount of grassland in the watershed via regional/watershed incentives for the Whole Field Conservation Reserve Program.	M			X																				\$100,000	FSA	ISDA		Water Quality	2010-2014	IN	No \$\$ provided, estimated by URS. Jim Lake, ISDA 3/17/09
Ottawa River Watershed	Flood Studies	Perform hydraulics and hydrology studies.	L																							\$100,000	USACE	USGS	USACE	Commercial and Recreational Navigation	2011	OH	Need more project details
St. Joseph River Watershed	Stream/ Riparian Restoration	Perform updated hydrologic assessment of the watershed to identify and rank areas of instability & rehabilitate.	H			X																				\$100,000	The Nature Conservancy	St. Joseph River Watershed Initiative		Fish and Wildlife Habitat	2010-2014	IN	Joe Draper, TNC 3/19/09
Auglaize River Watershed	Culvert Replacement	Prepare an inventory of culverts at which regular flooding occurs and target them for retrofitting.	M																							\$100,000	County Engineer	County agencies		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009	OH	
Ottawa River Watershed	Culvert Replacement	Prepare inventory of culverts causing historic flooding and target them for retrofitting.	M																							\$100,000	County Engineer	County agencies		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
St. Marys River Watershed	Culvert Replacement	Prepare inventory of culverts causing historic flooding and target them for retrofitting.	M																							\$100,000	County Engineer	County agencies		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
Tiffin River Watershed	Culvert Replacement	Prepare inventory of culverts causing historic flooding and target them for retrofitting.	M																							\$100,000	County Engineer	County agencies		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
Upper Maumee River Watershed	Culvert Replacement	Prepare inventory of culverts causing historic flooding and target them for retrofitting.	M																							\$100,000	County Engineer	County agencies		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
Auglaize River Watershed	Stormwater Management	Prepare Stormwater Management Plans	M			X																				\$100,000	OEPA			Water Quality	2009-2014	OH	
Blanchard River Watershed	Watershed/ Community Planning	Prepare watershed action plan to set restoration priorities, funding sources, and schedule.	H			X																				\$100,000	Blanchard River Watershed Partners			Water Quality	2010	OH	
Auglaize River Watershed	Regulatory	Protect fish and endangered species as related to contaminated sediments.	L		X	X																				\$100,000	OEPA	Communities		Fish and Wildlife Habitat	2010-2014	OH	

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WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU										
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)										
Auglaize River Watershed	Watershed/ Community Planning	Provide technical assistance for comprehensive watershed planning.	H			X						X							\$100,000	SWCD's	Planning Commissions		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH			
Ottawa River Watershed	Watershed/ Community Planning	Provide technical assistance for comprehensive watershed planning.	H		X	X	X												\$100,000	SWCD's	Planning Commissions		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH			
Lower Maumee River Watershed	Conservation	Purchase/Lease part of Miami Erie canal to set aside natural buffer for Maumee River.	H		X							X							\$100,000	Counties	Local governments		Fish and Wildlife Habitat	2010-2013	OH			
Ottawa River Watershed	Watershed/ Community Planning	Reassess economic evaluation (ecological, commercial, recreation).	L									X							\$100,000	City of Toledo			Commercial and Recreational Navigation	2011	OH			
Portage River Watershed	Stream/ Riparian Restoration	Reconnect stream to floodplain and provide flood storage and water quality improvements.	H		X	X						X							\$100,000	County Engineer	NRCS, USACE		Water Quality	2010-2014	OH			
St. Joseph River Watershed	Nutrient Management	Reduce E. coli loadings from livestock, feedlot, and barnyard/milk house operations, Cedar Creek Watershed.	M			X	X	X	X			X							\$100,000	St. Joseph River Watershed Initiative			Water Quality	2011-2014	IN			
Tiffin River Watershed	Dam Removal	Remove dams on the mainstem of the Tiffin to enhance recreational boating.	H		X	X						X							\$100,000	ODNR	OEPA	ODNR	Commercial and Recreational Navigation	2010-2014	OH	\$\$ need study to determine costs.		
Lower Maumee River Watershed	Habitat Restoration and/ or Protection	Removing/reducing part of the Fish Consumption Advisory	H				X												\$100,000	Ohio EPA	Partners For Clean Streams (PCS)		Water Quality	2010-2011	OH	Provided by PCS, Kris Patterson, 73009		
Upper Maumee River Watershed	Stream Bank Erosion	Repair areas of streambank erosion.	M			X		X											\$100,000	County Engineers	SWCDs, County engineers		Water Quality	2010-2014	OH	Do initial feasibility study before determining requirements/costs.		
Lower Maumee River Watershed	Flood Studies	Study and identify State Highway areas that routinely flood.	H									X							\$100,000	ODOT			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH			
Maumee Bay	Studies	Study to evaluate realignment of navigation channel.	M														X		\$100,000	Toledo-Lucas County Port Authority	USACE	USACE	Commercial and Recreational Navigation	2012	OH			
St. Marys River Watershed	Flood Hazard Mapping	Update/complete Flood Hazard mapping for St. Mary Watershed: IN	H									X							\$100,000	Maumee River Basin Commission	Communities, FEMA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	IN	See also St. Joseph, Upper Maumee potential actions, IN		
Upper Maumee River Watershed	Flood Hazard Mapping	Update/complete Flood Hazard mapping for St. Mary Watershed: IN	H									X							\$100,000	Maumee River Basin Commission	Communities, FEMA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	IN	See also St. Joseph, St. Marys. Added together totals \$375,000		
St. Marys River Watershed	Flood Mitigation	Yost Levee Removal /Bypass Channel evaluation.	L									X							\$100,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012-2012	IN	Do after completion of additional Master Plan evaluations.		
Upper Maumee River Watershed	Stream Flow & Quality Monitoring	Install gage near road crossing downstream of Trier or Marsh Ditch confluences near the Platter Road crossing, used to calibrate hydraulic models.	M							X		X							\$97,500	Maumee River Basin Commission	Indiana Water Science Center		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	IN	Includes installation costs and maintenance and operation costs for 5 years.		
St. Joseph River Watershed	Stream Flow & Quality Monitoring	Install river gage in vicinity of Tennessee Avenue and State street bridges to calibrate St. Joseph River hydraulic model.	M							X		X							\$97,500	Maumee River Basin Commission	St. Joseph River Watershed Initiative		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2014	IN	\$30K installation/average cost plus \$13,500 per year for operation and maintenance for 5 years.		
St. Marys River Watershed	Stream Flow & Quality Monitoring	Install/operate river gage on Main Street Bridge to calibrate River Hydraulic Model.	H							X		X							\$97,500	Maumee River Basin Commission	USGS, USACE, Indiana Water Science Center		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2014	IN	Installation Cost for gage and telemetry to access data via WEB. Annual Maintenance for 5 years by USGS.		
St. Joseph River Watershed	Stream Bank Erosion	Construct 19 erosion control structures	M			X		X											\$95,000	DeKalb County SWCD	St. Joseph River Watershed Initiative		Water Quality	2010-2012	IN	From St. Joseph River Watershed Initiative		
Upper Maumee River Watershed	Habitat Restoration and/ or Protection	Provide field borders, filter strips, riparian forest buffers, field breaks - BMP	H			X		X									X		\$92,747	NRCS	SWCD's, ODNR, IDA		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.		
St. Joseph River Watershed	Flood Control	Perform study to evaluate flooding problems in the Town of Waterloo and make recommendations	M									X							\$83,000	Waterloo			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2012	IN	From St. Joseph River Watershed Initiative		
Portage River Watershed	Flood Mitigation	Removal of abandoned New Rochester Road Bridge.	L									X							\$80,000	County Engineer			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH			
Auglaize River Watershed	Wetland Protection/ Restoration	Restore wetlands - BMP	H			X		X				X							\$79,633	NRCS	SWCD's, ODNR, ISDA		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis		
Blanchard River Watershed	Nutrient Management	Prepare Comprehensive Nutrient Management Plans - BMP	H			X		X				X							\$78,636	NRCS	SWCD's, ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis		
St. Joseph River Watershed	Nutrient Management	Prepare Comprehensive Nutrient Management Plans - BMP	H			X		X				X							\$76,000	NRCS	SWCD's, ODNR, ISDA, MDNR, MDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.		
Auglaize River Watershed	Stream/ Riparian Restoration	Complete 220 ft of over-wide channel design along Merritt Ditch, at Hicksville, Ohio.	M		X	X													\$75,000	Defiance SWCD			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH			
Tiffin River Watershed	Water Supply	Complete Source Water Protection (SWAP) Plan - Archibold	H			X						X							\$75,000	Archibold	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS		
Ottawa River Watershed	Rural Drainage Improvements	Conduct comprehensive inventory and assessment of rural drainage system to better understand this important "drainage infrastructure" and better management maintenance practices to reduce sediment loadings and aquatic habitat.	H			X		X				X							\$75,000	County Engineer	SWCD		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH			

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WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives								WLEB Partnership Strategic Objectives								Cost Estimate	Lead	Support	Existing/Prospective Authority	WLEB Study Category	Time Frame	State	Comments	
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU										
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)										
Portage River Watershed	Rural Drainage Improvements	Conduct comprehensive inventory and assessment of rural drainage system to better understand this important "drainage infrastructure" and better management maintenance practices to reduce sediment loadings and aquatic habitat.	H			X		X													\$75,000	County Engineer	SWCD		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH	
St. Marys River Watershed	Rural Drainage Improvements	Conduct comprehensive inventory and assessment of rural drainage system to better understand this important "drainage infrastructure" and better management maintenance practices to reduce sediment loadings and aquatic habitat.	H			X		X													\$75,000	County Engineer	SWCD		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH	
Upper Maumee River Watershed	Rural Drainage Improvements	Conduct comprehensive inventory and assessment of rural drainage system to better understand this important "drainage infrastructure" and better management maintenance practices to reduce sediment loadings and aquatic habitat.	H			X		X													\$75,000	County Engineer	SWCD		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH	
Auglaize River Watershed	Rural Drainage Improvements	Conduct comprehensive inventory and assessment of rural drainage system to better understand this important "drainage infrastructure" and better management maintenance practices to reduce sediment loadings and aquatic habitat.	H			X		X													\$75,000	County Engineer	SWCD		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH	
Blanchard River Watershed	Rural Drainage Improvements	Conduct comprehensive inventory and assessment of rural drainage system to better understand this important "drainage infrastructure" and better management maintenance practices to reduce sediment loadings and aquatic habitat.	H			X		X													\$75,000	County Engineer	SWCD		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	OH	
St. Marys River Watershed	Stream/ Riparian Restoration	Conduct inventory of riparian corridors to maximize water quality and quantity benefits.	H			X								X							\$75,000	Maumee River Basin Commission	Local Landowners		Water Quality	2011	IN	
Upper Maumee River Watershed	Stream/ Riparian Restoration	Conduct inventory of riparian corridors to maximize water quality and quantity benefits.	H		X	X								X							\$75,000	Maumee River Basin Commission	Local Landowners		Water Quality	2011	IN	
Tiffin River Watershed	Studies	Develop a comprehensive strategy for acquiring and managing floodplain open space	M		X																\$75,000	Joyce Foundation	state, regional and local governments, non-profits,	Joyce Foundation (funding entity)	Fish and Wildlife Habitat	2012-2014	OH	
Ottawa River Watershed	Recreation	Develop a series of boardwalks that would cross meadows and allow gathering areas on UT campus.	M								X										\$75,000	University of Toledo			Resource-Based Recreation	2012	OH	
Maumee Bay	Studies	Develop and apply computer models to assess water quality and ecological impacts of pollutant loadings and invasive species.	M	X	X									X							\$75,000	USEPA	OEPA, NOAA		Fish and Wildlife Habitat	2013	OH	
Ottawa River Watershed	Stream/ Riparian Restoration	Develop riffles and other stream habitat restoration practices downstream of bridges on UT campus.	H		X	X															\$75,000	University of Toledo			Fish and Wildlife Habitat	2011	OH	
Auglaize River Watershed	Dam Removal	Develop studies and plans to remove dams affecting water quality.	H			X									X						\$75,000	OEPA	NRCS, ODNR, Dam Owner	ODNR	Water Quality	2011-2014	OH	
Auglaize River Watershed	Education	Establish and strengthen programs to promote natural stream management and filter strips.	M			X													X		\$75,000	ODNR	SWCD's, NRCS		Fish and Wildlife Habitat	2010-2014	OH	
St. Marys River Watershed	Flood Mitigation	Establish post-flood damage assessment protocol.	H																	X	\$75,000	Maumee River Basin Commission	Communities in Watershed		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	IN	
St. Marys River Watershed	Stream/ Riparian Restoration	Formulate non-structural flood damage and ecosystem restoration projects to provide recreational opportunities.	M			X		X			X	X	X								\$75,000	USACE	Various stakeholders		Resource-Based Recreation	2011-2014	OH	
Ottawa River Watershed	Flood Mitigation	Implement environmentally friendly flood control measures.	M												X						\$75,000	County Engineer	Communities, ODNR		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	Need study to evaluate alternatives, \$ for study
Portage River Watershed	Flood Mitigation	Implement environmentally friendly flood control measures.	H												X						\$75,000	County Engineer	Communities, ODNR		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	
Auglaize River Watershed	Regulatory	Implement Ohio's Aquatic Nuisance species Plan.	L	X		X															\$75,000	ODNR	OEPA		Fish and Wildlife Habitat	2010	OH	Time frame depends on the passage of HB 289.
Maumee Bay	Studies	Investigate short sea shipping opportunities.	M												X						\$75,000	Toledo-Lucas County Port Authority	U.S. Department of Commerce	Department of Commerce	Commercial and Recreational Navigation	2012	OH	
Auglaize River Watershed	Dam Removal	Investigate the removal of dams that currently impede recreational navigation.	M			X									X						\$75,000	ODNR	OEPA, Counties	ODNR	Commercial and Recreational Navigation	2009	OH	
Ottawa River Watershed	Studies	Perform a stream corridor survey and inventory of wildlife	M		X	X															\$75,000	ODNR	PRBC NatureWorks		Fish and Wildlife Habitat	2012	OH	
Lower Maumee River Watershed	Water Supply	Prepare Source Water Protection (SWAP) Plan – Bowling Green	H			X						X									\$75,000	Bowling Green	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Lower Maumee River Watershed	Water Supply	Prepare Source Water Protection (SWAP) Plan – Napoleon	H			X						X									\$75,000	Napoleon	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Blanchard River Watershed	Water Supply	Prepare Source Water Protection (SWAP) Plan – Village of Ottawa.	H			X						X									\$75,000	Ottawa	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
Blanchard River Watershed	Stream/ Riparian Restoration	Promote in-stream channel measures that increase flow and aeration – conduct feasibility study.	M			X							X								\$75,000	Blanchard River Watershed Partners	OEPA		Water Quality	2011-2014	OH	

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WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments					
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBC	WLEB	HYDRO	DR	FRP	NPC	ENER	EU															
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBC)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)															
Portage River Watershed	Education	Promote river tours of the watershed include agricultural conservation sites, working HSTS, and upgraded public WWTP.	L			X																			\$75,000	SWCD's			Water Quality	2010-2014	OH	\$15,000/annually	
Maumee Bay	Watershed/ Community Planning	Quantify the relationship and connection between tourism and water quality and ecological functioning to assess how future dollars are spent.	M								X															\$75,000	Ohio State Parks	Ohio Sea Grant, ODNR		Resource-Based Recreation	2011-2014	OH	
Auglaize River Watershed	Stormwater Management	Storm sewer, open ditch, I/I; 4,600 LF open ditch reconstruction and stabilization	H			X						X														\$75,000	Allen County Engineer	Allen County Commissioners		Water Quality	2009	OH	From State stimulus list
Blanchard River Watershed	Stream Bank Erosion	Survey watershed for sources of stream bank erosion, and stabilize these areas in a holistic manner.	H			X		X																		\$75,000	Blanchard River Watershed Partners	Soil and Water Conservation Districts		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
St. Marys River Watershed	Stream Bank Erosion	Survey watershed for sources of stream bank erosion, and stabilize these areas in a holistic manner.	H			X		X																		\$75,000	Maumee River Basin Commission			Water quality	2010-2014	IN	Includes study money to prioritize areas.
Tiffin River Watershed	Watershed/ Community Planning	Update Hillsdale County, Michigan Parks and Recreation Plan.	M								X															\$75,000	Hillsdale County			Resource-Based Recreation	2010	OH	
Ottawa River Watershed	Recreation	Update Toledo Metropolitan Park District Master Plans.	H								X															\$75,000	Toledo Metropolitan Park District			Resource-Based Recreation	2010	OH	
St. Joseph River Watershed	Nutrient Management	Implement nutrient and pest management BMPs on 300 acres	M			X		X				X														\$72,000	DeKalb County SWCD	St. Joseph Watershed Initiative		Water Quality	2010-2012	IN	From St. Joseph River Watershed Initiative
Tiffin River Watershed	Nutrient Management	Prepare Comprehensive Nutrient Management Plans - BMP	H			X		X				X														\$62,362	NRCS	SWCD's, ODNR, MDA, MDNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
Lower Maumee River Watershed	Stream Bank Erosion	Repair and stabilize the eroding streambank along County Road 2 near CR 15.	M			X		X																		\$60,400	Henry County			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2010	OH	
Blanchard River Watershed	Stream Flow & Quality Monitoring	Add two gauges for WQ	H			X				X	X	X														\$60,000	USGS	ODNR		Water Quality	2010	OH	Dick Bartz, USGS, \$30,000/gage installation times 2
Auglaize River Watershed	Studies	Develop TMDL for the lower Auglaize River.	H			X		X																		\$60,000	OEPA			Water Quality	2012	OH	
St. Joseph River Watershed	Flood Mitigation	Implement Model Flood Plain Ordinance established for Indiana in Michigan and Ohio communities which promotes "No Adverse Impacts".	M									X														\$60,000	St. Joseph River Watershed Initiative	ODNR, Maumee Basin River Commission		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	Applies to Michigan and Ohio Portion but lead by watershed group. Note: Ohio has model ordinance also.
St. Marys River Watershed	Wetland Protection/ Restoration	Restore wetlands - BMP	H			X		X				X														\$59,910	NRCS	SWCD's, ODNR, ISDA		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.
Tiffin River Watershed	Wetland Protection/ Restoration	Continue support for Wetland Reserve Program (WRP) easement & land retirement needs for wetland restoration.	H			X		X				X														\$59,854	NRCS	SWCD's, ODNR, MDA, MDNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes 20% for technical assistance.
Auglaize River Watershed	Regulatory	Adopt riparian corridor protection ordinances	H			X													X							\$50,000	OEPA	ODNR, Counties and local governments		Water Quality	2009-2012	OH	
Auglaize River Watershed	Regulatory	Adopt riparian corridor protection ordinances.	M		X	X																				\$50,000	Counties	Local governments, NRCS, ODNR,		Fish and Wildlife Habitat	2009-2012	OH	
Maumee Bay	Habitat Restoration and/ or Protection	An extension of a roadway into the Bay near Point Place is negatively impacting circulation. Removal or cut through should be evaluated.	M									X														\$50,000	ODOT			Water Quality	2012	OH	
Auglaize River Watershed	Dam Removal	Assess the environmental and economic benefit of tributary dams and encourage removal where possible, or modification for fish passage.	M			X						X														\$50,000	USFWS	OEPA	ODNR	Fish and Wildlife Habitat	2010-2011	OH	
St. Marys River Watershed	Watershed/ Community Planning	Build collaborative relationships with Ohio communities and the State of Ohio to develop more restrictive standards as they apply to floodplain and stormwater management.	H									X												X		\$50,000	Maumee River Basin Commission	ODNR, Communities in Ohio.		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	IN	See also potential action involving setting up watershed organization for St. Marys Watershed.
Auglaize River Watershed	Stream/ Riparian Restoration	Complete 10 miles of log jam on Sugar Creek	H			X						X														\$50,000	Pulnam SWCD			Fish and Wildlife Habitat	2010-2014	OH	Commenter.
Lower Maumee River Watershed	Stream Bank Erosion	Complete 5 miles of erosion control improvements on Prairie Creek	M			X		X																		\$50,000	Defiance SWCD			Water Quality	2010	OH	Commenter
Lower Maumee River Watershed	Flood Studies	Complete a study of flooding of School Creek at Holgate in Henry County.	H								X	X														\$50,000	Henry County	USACE		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2010	OH	
Portage River Watershed	Water Supply	Complete Source Water Protection (SWAP) Plan - Fostoria	H			X					X															\$50,000	Fostoria	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Portage River Watershed	Water Supply	Complete Source Water Protection (SWAP) Plan - McComb	H			X					X															\$50,000	McComb	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Ottawa River Watershed	Water Supply	Complete Source Water Protection (SWAP) Plan - Metamora	H			X					X															\$50,000	Metamora	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Portage River Watershed	Water Supply	Complete Source Water Protection (SWAP) Plan - North Baltimore	M			X					X															\$50,000	North Baltimore	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Lower Maumee River Watershed	Water Supply	Complete Source Water Protection (SWAP) Plan - Swanton	H			X					X															\$50,000	Swanton	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments			
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU													
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concerns/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)													
Auglaize River Watershed	Water Supply	Complete Surface Water Protection Plan (SWAP) for Lima	H			X							X										\$50,000	Lima	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS	
Auglaize River Watershed	Water Supply	Complete Surface Water Protection Plan (SWAP) for Paulding	H			X							X											\$50,000	Paulding	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Auglaize River Watershed	Water Supply	Complete Surface Water Protection Plan (SWAP) for Van Wert	H			X							X											\$50,000	Van Wert	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Lower Maumee River Watershed	Studies	Complete wetland and stream preservation studies to include the Lower Maumee watershed into the NORM project.	H		X	X																		\$50,000	NCRCPD			Fish and Wildlife Habitat	2010	OH	
Maumee Bay	Stream Bank Erosion	Conduct an assessment of Woodtick Peninsula and the Erie March Preserve including the potential use of geotubes to protect the area from further erosion.	M			X		X																\$50,000	ODNR	TNC, Ducks Unlimited		Fish and Wildlife Habitat	2011	OH	
Ottawa River Watershed	Studies	Continue research and testing of various methods to manage or close off drainage tiles during times of the year that they are not used.	H					X					X											\$50,000	Counties	County Agencies, OEPA, Corps of Engineers, ODNR, NRCS, SWCD's		Water Quality	2010-2014	OH	
Upper Maumee River Watershed	Regulatory	Corridor Protection Ordinances.	L			X																		\$50,000	OEPA	ODNR, IDNR		Water Quality	2010-2013	OH	Per Steve Davis, revised Lead agency, Ohio portion only.
Upper Maumee River Watershed	BMPs/ Green Infrastructure	Develop BMPs to reduce sediment loadings.	M			X							X											\$50,000	ODNR	IDNR		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	
Ottawa River Watershed	BMPs/ Green Infrastructure	Develop strategy to implement BMPs on farms with less than 1,000 animals.	M			X							X											\$50,000	ODNR	NRCS, MDEQ		Water Quality	2010-2012	OH	
Portage River Watershed	Regulatory	Establish minimum discharge from Van Buren Reservoir during summer-fall low flow periods.	L			X																		\$50,000	ODNR			Fish and Wildlife Habitat	2011	OH	
St. Marys River Watershed	Woody Debris Removal	Evaluate feasibility of nonstructural tools to reduce or eliminate stream maintenance (woody debris removal)	M										X											\$50,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	Includes entire Maumee Basin in Indiana
Upper Maumee River Watershed	Flood Control	Feasibility study on the Fairfield Ditch area.	L										X											\$50,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	IN	
St. Marys River Watershed	Stream/ Riparian Restoration	Identify areas for restoration of natural hydrology and flow characteristics to also benefit flood mitigation.	H			X							X											\$50,000	SWCD's	County Agencies, incorporated areas		Fish and Wildlife Habitat	2010	OH	
Upper Maumee River Watershed	Stream/ Riparian Restoration	Identify areas for restoration of natural hydrology and flow characteristics to also benefit flood mitigation.	M		X	X							X											\$50,000	SWCD's	County Agencies, incorporated areas		Fish and Wildlife Habitat	2010	OH	
Tiffin River Watershed	Stream/ Riparian Restoration	Identify areas for restoration of natural hydrology, and flow characteristics which also benefit flood mitigation.	M			X																		\$50,000	SWCD's	County agencies, incorporated areas		Fish and Wildlife Habitat	2010-2012	OH	
Maumee Bay	Stream Bank Erosion	Implement pilot studies related to shore erosion.	H			X		X																\$50,000	ODNR	USEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	
Portage River Watershed	Watershed/ Community Planning	Include the Portage watershed into the NORM project.	M			X																		\$50,000	NCRCPD			Resource-Based Recreation	2010	OH	
Portage River Watershed	Rural Drainage Improvements	Incorporate Stream Restoration and Protection into Drainage Projects.	M			X		X					X											\$50,000	County Engineer	SWCD		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2014	OH	
St. Marys River Watershed	Rural Drainage Improvements	Incorporate stream restoration and protection into drainage projects.	M			X		X					X											\$50,000	County Engineer	SWCD		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2014	OH	
Upper Maumee River Watershed	Rural Drainage Improvements	Incorporate Stream Restoration and Protection into Drainage Projects.	M			X		X					X											\$50,000	County Engineer	SWCD		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2014	OH	
Auglaize River Watershed	Wastewater	Increase monitoring of phosphorus downstream of Unionopolis and based on the results, possibly reduce P in permit limits of Unionopolis WWTP.	M			X																		\$50,000	OEPA			Water Quality	2009	OH	
Tiffin River Watershed	Wetland Protection/ Restoration	Increase protection of floodplains and wetlands throughout the watershed.	H		X	X							X											\$50,000	SWCD's	County agencies		Fish and Wildlife Habitat	2010-2012	OH	
Tiffin River Watershed	Regulatory	Increased CAFO regulation, and manure handling education.	H			X																		\$50,000	State and federal agencies	USDA		Water Quality	2009	MI	
Maumee Bay	Studies	Investigation into nutrients (including phosphorous and nitrates) and cyanobacteria and other forms of algae.	M			X																		\$50,000	USEPA	NOAA, OEPA, ODNR, MDEQ, MDNR		Water Quality	2010	OH	
Auglaize River Watershed	Water Supply	Limit water withdrawal below prescribed base stream flows.	L										X											\$50,000	ODNR	OEPA		Fish and Wildlife Habitat	2010-2014	OH	Cost estimate needed
Ottawa River Watershed	Wetland Protection/ Restoration	Lower existing dike on UT campus creating a meadows area.	L		X	X							X											\$50,000	University of Toledo			Fish and Wildlife Habitat	2011	OH	
St. Marys River Watershed	Flood Mitigation	Maintain Junk Ditch/Little River overflow floodplain to assure land use changes do not significantly decrease flow, complete evaluation/Master Plan Update.	H										X											\$50,000	Maumee River Basin Commission	Communities served by MRBC		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	IN	
Portage River Watershed	BMPs/ Green Infrastructure	Mandate low impact development practices (minimize impervious surface, maximize green space, floodplain, wooded corridors, infiltration basins, pervious surface).	H			X							X											\$50,000	Portage River Basin Council			Water Quality	2009-2014	OH	

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WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives								Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments		
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU													
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)													
Lower Maumee River Watershed	Water Supply	Prepare Source Water Protection (SWAP) Plan – Archibold	H			X						X											\$50,000	Archbold	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS	
Blanchard River Watershed	Water Supply	Prepare Source Water Protection (SWAP) Plan – City of Findlay.	H			X						X												\$50,000	Findlay	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
Lower Maumee River Watershed	Water Supply	Prepare Source Water Protection (SWAP) Plan – Defiance	H			X						X												\$50,000	Defiance	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Lower Maumee River Watershed	Water Supply	Prepare Source Water Protection (SWAP) Plan – Delphos	H			X						X												\$50,000	Delphos	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Lower Maumee River Watershed	Water Supply	Prepare Source Water Protection (SWAP) Plan – Delta	H			X						X												\$50,000	Delta	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Lower Maumee River Watershed	Water Supply	Prepare Source Water Protection (SWAP) Plan – McClure	H			X						X												\$50,000	McClure	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Lower Maumee River Watershed	Water Supply	Prepare Source Water Protection (SWAP) Plan – Wauseon	H			X						X												\$50,000	Wauseon	OEPA	OEPA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	Gail Hesse comments, estimate URS
Upper Maumee River Watershed	Woody Debris Removal	Remove old concrete bridge piers to prevent formation of log jam, remove accumulated woody debris (Northeast corner of US127 & US 24.	H																					\$50,000	Defiance Soil and Water Conservation District	ODNR		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
Upper Maumee River Watershed	Woody Debris Removal	Remove railroad pier to prevent log jam, remove existing jam (Intersection of The Bend Road and Speaker Road).	H																					\$50,000	Defiance Soil and Water Conservation District	ODNR		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
Ottawa River Watershed	Recreation	Remove small portion of lot on UT campus to create open space adjacent to the river.	M									X												\$50,000	University of Toledo			Resource-Based Recreation	2012	OH	
Portage River Watershed	Wastewater	Replace failing home septic systems and continue current program.	M			X																		\$50,000	Portage River Basin Council			Water Quality	2009-2014	OH	
Auglaize River Watershed	Stormwater Management	Storm sewer replacement, septic tank outlet, storm drainage	H			X																		\$50,000	Allen County Engineer	Allen County Commissioners		Water Quality	2009	OH	From State stimulus list
Auglaize River Watershed	Stream/ Riparian Restoration	Study identifying areas for restoration of natural hydrology and flow characteristics which also benefit flood mitigation.	M			X																		\$50,000	SWCD's	County agencies, incorporated areas		Fish and Wildlife Habitat	2010	OH	
Ottawa River Watershed	Stream/ Riparian Restoration	Study identifying areas for restoration of natural hydrology, and flow characteristics which also benefit flood mitigation.	H		X	X																		\$50,000	SWCD's	County agencies, incorporated areas		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	
Tiffin River Watershed	Stream/ Riparian Restoration	Study identifying areas to increase riparian zone vegetation in Williams County.	M			X																		\$50,000	SWCD's	County agencies		Fish and Wildlife Habitat	2010	OH	
Portage River Watershed	Woody Debris Removal	Study impact of log jam removal on recreational boating opportunities.	M																					\$50,000	County Engineer	USACE		Commercial and Recreational Navigation	2010	OH	
St. Marys River Watershed	Woody Debris Removal	Study impact of log jam removal on recreational boating opportunities.	M																					\$50,000	County Engineer	USACE		Commercial and Recreational Navigation	2010	OH	
Upper Maumee River Watershed	Woody Debris Removal	Study impact of log jam removal on recreational boating opportunities.	M																					\$50,000	County Engineer	USACE		Commercial and Recreational Navigation	2010	OH	See other potential actions that if completed will also provide resources.
Maumee Bay	Studies	Study the thermal impacts of the two Power plants (Consumers and Bay Shore), and the impacts of the fish kills on the fish populations from the kills at the Bayshore/First Energy and Consumers Whiting and DTE in Monroe should be reviewed.	H		X	X		X																\$50,000	OEPA	ODNR, USEPA		Water Quality	2010-2012	OH	Generally cooling towers like those at Enrico Fermi and Davis Besse are the solutions. Cost to be determined.
Lower Maumee River Watershed	Education	Support the Green Ribbon Initiative through planning, educational materials, etc.	M			X																		\$50,000	The Nature Conservancy	Toledo Metropolitan Park District		Resource-Based Recreation	2010	OH	
Ottawa River Watershed	Education	Support the Green Ribbon Initiative through planning, educational materials, etc.	M			X																		\$50,000	The Nature Conservancy	Toledo Metropolitan Park District		Resource-Based Recreation	2010	OH	
Lower Maumee River Watershed	Wetland Protection/ Restoration	Restore wetlands - BMP	H			X		X																\$49,550	NRCS	SWCD's, ODNR		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
St. Joseph River Watershed	Nutrient Management	Install 30 miles of filter strips	H			X		X																\$47,273	DeKalb County SWCD	St. Joseph River Watershed Initiative		Water Quality	2010-2013	IN	From St. Joseph River Watershed Initiative
Upper Maumee River Watershed	Studies	Perform a stream corridor survey and inventory of wildlife	H																					\$45,000	ODNR	IDNR, NatureWorks		Fish and Wildlife Habitat	2010	OH	
Portage River Watershed	Studies	Perform a stream corridor survey and inventory of wildlife.	M		X	X																		\$45,000	ODNR	PRBC NatureWorks		Fish and Wildlife Habitat	2010	OH	
St. Marys River Watershed	Conservation	Perform a stream corridor survey and inventory of wildlife.	M		X							X												\$45,000	ODNR	IDNR, NatureWorks		Fish and Wildlife Habitat	2010	OH	
Ottawa River Watershed	Studies	Prioritize funding for implementation of soil conservation projects and research into new conservation practices.	H									X												\$45,000	Environmental Defense	ODNR, NRCS, MDEQ		Water Quality	2009	OH	
Portage River Watershed	Nutrient Management	Prioritize funding for implementation of soil conservation projects and research into new conservation practices.	H			X		X																\$45,000	NRCS	SWCD, ODNR		Water Quality	2010	OH	Steve Davis, OK 60909
St. Marys River Watershed	Nutrient Management	Prioritize funding for implementation of soil conservation projects and research into new conservation practices.	H			X		X																\$45,000	NRCS	SWCD, ODNR		Water quality	2010	OH	Steve Davis, OK 60909

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WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives								Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments						
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU																	
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)																	
Upper Maumee River Watershed	Studies	Prioritize funding for implementation of soil conservation projects and research into new conservation practices.	M			X		X		X															\$45,000	NRCS	SWCD, ODNR		Water Quality	2010	OH	Steve Davis, OK 60909			
St. Marys River Watershed	Nutrient Management	Promote demonstration projects for innovative conservation tillage and cover crop practice.	H			X		X																		\$45,000	NRCS	ODNR, IDNR		Water quality	2010	OH	Steve Davis, OK 60909		
Blanchard River Watershed	Dam Removal	Study the feasibility of dam modification at the city park (upstream of Liberty Street dam).	H			X																				\$45,000	Blanchard River Watershed Partners	USACE, OEPA	ODNR	Water Quality	2010-2012	OH			
Auglaize River Watershed	Rural Drainage Improvements	Provide drainage water management - BMP	H			X		X																			\$41,737	NRCS	SWCD's , ODNR, ISDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis	
Portage River Watershed	Nutrient Management	Prepare Comprehensive Nutrient Management Plans - BMP	H			X		X																			\$40,878	NRCS	SWCD's , ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.	
Upper Maumee River Watershed	Recreation	Clean out 1-acre pond filled from sediment due to flooding of near by Trier Ditch	M									X															\$40,000	New Haven	USACE, Maumee River Basin Commission		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	IN		
St. Marys River Watershed	Rural Drainage Improvements	Conduct drainage feasibility study on the Fairfield Ditch area.	M			X		X																			\$40,000	USACE			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2012	IN		
St. Marys River Watershed	Recreation	Determine the feasibility of clear and snag projects to deepen stretches of the river to increase historical tours via canoe.	M								X																\$40,000	Maumee River Basin Commission	SWCD, County engineers		Resource-Based Recreation	2011-2014	OH		
Upper Maumee River Watershed	Recreation	Determine the feasibility of clear and snag projects to deepen stretches of the river to increase historical tours via canoe.	M								X																\$40,000	Maumee River Basin Commission	SWCD, County engineers		Resource-Based Recreation	2010	IN		
Lower Maumee River Watershed	Stormwater Management	Develop a retrofit for the detention pond at Spring Valley.	L			X																					\$40,000	LSWCD	Lucas County Engineers		Water Quality	2008-2009	OH		
Upper Maumee River Watershed	Recreation	Develop a water trail with additional recreational access.	M								X																\$40,000	Counties			Commercial and Recreational Navigation	2012	OH		
St. Marys River Watershed	Stream/ Riparian Restoration	Emergency streambank and shoreline protection projects.	M			X																					\$40,000	USACE	Local stakeholders		Fish and Wildlife Habitat	2010	OH		
Auglaize River Watershed	Studies	Establish cost estimates and schedules for implementing nonstructural flood mitigation recommendations presented in County Natural Disaster Mitigation Plans.	M			X		X																			\$40,000	County EMAs	Ohio EMA.	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012	OH		
Portage River Watershed	Studies	Establish cost estimates and schedules for implementing nonstructural flood mitigation recommendations presented in County Natural Disaster Mitigation Plans.	M			X																					\$40,000	County EMAs	Ohio EMA	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012	OH		
St. Marys River Watershed	Studies	Establish cost estimates and schedules for implementing nonstructural flood mitigation recommendations presented in County Natural Disaster Mitigation Plans.	M								X																	\$40,000	County EMAs	Ohio EMA.	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012	OH	
Upper Maumee River Watershed	Studies	Establish cost estimates and schedules for implementing nonstructural flood mitigation recommendations presented in County Natural Disaster Mitigation Plans.	M																									\$40,000	County EMAs	Ohio EMA.	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012	OH	
Blanchard River Watershed	Studies	Establish cost estimates and schedules for implementing nonstructural flood mitigation recommendations presented in County Natural Disaster Mitigation Plans.	M			X		X																				\$40,000	County EMAs	Ohio EMA.	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012	OH	
Ottawa River Watershed	Studies	Establish priorities, schedules and cost estimates for implementing non-structural flood control measures such as: stream maintenance (clearing/ snagging/log jam removal), dredging, flood warning systems, flood-proofing structures, ice jam clearing, education of the public and community officials on the National Flood Insurance Program (NFIP) features and benefits, etc.	M					X																				\$40,000	FEMA	Counties	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012	OH	
Portage River Watershed	Dam Removal	Evaluate dam removal opportunities.	H			X																						\$40,000	ODNR	ODNR	ODNR	Commercial and Recreational Navigation	2011	OH	
St. Marys River Watershed	Dam Removal	Evaluate dam removal opportunities.	H			X																						\$40,000	ODNR	ODNR	ODNR	Commercial and Recreational Navigation	2011	OH	
Upper Maumee River Watershed	Dam Removal Study	Evaluate dam removal opportunities.	H			X																						\$40,000	ODNR	OEPA	ODNR	Commercial and Recreational Navigation	2011	OH	See other potential actions, St. Mary and Upper Maumee.
St. Marys River Watershed	Flood Mitigation	Increase freeboard for structures along the St. Marys River corridor	H																									\$40,000	Maumee River Basin Commission	Communities serviced by MRBC		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	
Upper Maumee River Watershed	Recreation	Increase the number of access points for canoeing and kayaking.	M								X																	\$40,000	Park Districts			Commercial and Recreational Navigation	2014	OH	
Upper Maumee River Watershed	Stream/ Riparian Restoration	Perform emergency streambank and shoreline protection projects.	L			X		X																				\$40,000	USACE	Local stakeholders		Fish and Wildlife Habitat	2010-2012	OH	
Blanchard River Watershed	Wetland Protection/ Restoration	Restore wetlands - BMP	H			X		X																				\$38,338	NRCS	SWCD's , ODNR		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Create/convert 95 acres of wildlife habitat	H			X		X																				\$38,000	DeKalb County SWCD	St. Joseph River Watershed Initiative		Fish and Wildlife Habitat	2010-2012	IN	From St. Joseph River Watershed Initiative
Tiffin River Watershed	Wetland Protection/ Restoration	Restore wetlands - BMP	H			X		X																				\$35,876	NRCS	SWCD's , ODNR, MDA, MDNR		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
St. Joseph River Watershed	Nutrient Management	Implement cover drops on 1409 acres	M			X		X																				\$35,225	DeKalb County SWCD	St. Joseph River Watershed Initiative		Water Quality	2010-2012	IN	From St. Joseph River Watershed Initiative

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments								
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU																		
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)																		
Upper Maumee River Watershed	Watershed/ Community Planning	Integrate existing local requirements (e.g., stormwater plans, CSO plans, CAFO management plans) to provide a comprehensive approach to water quality improvements.	M			X																						\$25,000	OEPA	ODNR, ODOA		Water Quality	2010-2014	OH		
Portage River Watershed	Watershed/ Community Planning	Integrate existing local requirements such as stormwater plans, CSO plans, CAFO management plans for a comprehensive approach.	M			X																							\$25,000	OEPA	ODNR, Ohio Department of Agriculture		Water Quality	2010-2014	OH	
Portage River Watershed	Watershed/ Community Planning	Perform annual river cleanup along the Portage and tributaries.	M			X		X																					\$25,000	Portage River Basin Council		Water Quality	2010-2014	OH	\$5,000/annually	
St. Marys River Watershed	Watershed/ Community Planning	Perform water quality study.	M			X																							\$25,000	Maumee River Basin Commission	IDEM, USEPA		Water quality	2010-2012	OH	
Blanchard River Watershed	Nutrient Management	Precision application of fertilizer/ manure to reduce excess nitrate runoff.	M			X		X					X																\$25,000	County SWCD		Water Quality	2010-2014	OH		
St. Marys River Watershed	Nutrient Management	Precision application of fertilizer/ manure to reduce excess nitrate runoff.	M			X		X					X																\$25,000	NRCS	IDEM, SWCDs		Water quality	2010-2014	OH	
St. Marys River Watershed	Education	Promote in-stream channel measures that increase flow and aeration.	M			X																			X				\$25,000	ODNR	SWCD		Water quality	2010-2014	OH	
Blanchard River Watershed	Nutrient Management	Promote water table management during non-crop seasons to control nitrates.	L			X		X					X																\$25,000	SWCD's		Water Quality	2010-2014	OH		
Ottawa River Watershed	Conservation	Remove invasive plants and trees to enhance the view of the river on UT campus.	L		X									X															\$25,000	University of Toledo		Fish and Wildlife Habitat	2011	OH		
Blanchard River Watershed	Education	Research practices for increased "no-till" corn production.	M			X																			X				\$25,000	NRCS		Water Quality	2010-2012	OH	Steve Davis, OK 60909	
St. Marys River Watershed	Studies	Sponsor research to assess performance of individual streams.	M			X																							\$25,000	OEPA	IDEM		Water quality	2009-2014	OH	
Upper Maumee River Watershed	Studies	Sponsor research to assess performance of individual streams.	L							X																			\$25,000	OEPA	IDEM		Water Quality	2009-2014	OH	
St. Joseph River Watershed	Education	Support/ sponsor pesticide applicator training opportunities (6 year plan), Cedar Creek Watershed	M			X																				X			\$25,000	St. Joseph River Watershed Initiative		Water Quality	2010-2016	IN		
Portage River Watershed	Rural Drainage Improvements	Provide drainage water management - BMP	H			X		X																					\$21,753	NRCS	SWCD's, ODNR		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Implement woodland management/TSI on 300 acres.	H		X	X					X				X	X													\$21,000	DeKalb County SWCD	St. Joseph River Watershed Initiative		Fish and Wildlife Habitat	2010-2012	IN	From St. Joseph River Watershed Initiative
Auglaize River Watershed	Regulatory	Adopt changes to the Ohio Drainage Laws restricting placement of streams on permanent maintenance programs.	L			X									X														\$20,000	ODNR		Fish and Wildlife Habitat	2010	OH		
Auglaize River Watershed	Studies	Analyze repetitive flood properties and identify feasible mitigation options.	M												X														\$20,000	County EMAs	FEMA, county agencies	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012	OH	
Ottawa River Watershed	Studies	Analyze repetitive flood properties and identify feasible mitigation options.	M										X			X													\$20,000	FEMA	County agencies	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012	OH	
Portage River Watershed	Studies	Analyze repetitive flood properties and identify feasible mitigation options.	M										X			X													\$20,000	FEMA	County agencies	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012	OH	
St. Marys River Watershed	Studies	Analyze repetitive flood properties and identify feasible mitigation options.	M										X			X													\$20,000	FEMA	County agencies	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012	OH	
Tiffin River Watershed	Studies	Analyze repetitive flood properties and identify feasible mitigation options.	M										X			X													\$20,000	FEMA	County agencies	FEMA	Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2011	OH	
Upper Maumee River Watershed	Recreation	Assess potential undercutting of Greenway by flood water moving down River resulting from USACE Flood Damage Reduction project.	M										X			X													\$20,000	New Haven		Resource-Based Recreation	2010	IN		
St. Joseph River Watershed	Wetland Protection/ Restoration	Continue to educate landowners with wetlands about the social, physical, and economic value to preserving wetlands as a flood control measure and alternative land use.	H		X	X		X							X														\$20,000	St. Joseph River Watershed Initiative	Maumee River Basin Commission		Fish and Wildlife Habitat	2010-2014	IN	
St. Joseph River Watershed	Flood Mitigation	Establish post-flood damage assessment protocol.	H												X											X			\$20,000	Maumee River Basin Commission	Communities in Watershed		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	IN	
St. Marys River Watershed	Recreation	Restore historical docks and places along the river.	M										X																\$20,000	The Historical Center, Ft. Wayne	Ft. Wayne, USACE		Resource-Based Recreation	2011-2014	IN	Include/coordinate as part of non-structural flood damage reduction program.
Upper Maumee River Watershed	Recreation	Restore historical docks and places along the river.	M										X																\$20,000	The Historical Center, Ft. Wayne	USACE		Resource-Based Recreation	2011-2014	IN	Include/coordinate as part of non-structural flood damage reduction program.
Portage River Watershed	Education	Workshop series on home septic maintenance.	L			X																				X			\$20,000	Portage River Basin Council	Health Departments, TMACOG		Water Quality	2009	OH	
Upper Maumee River Watershed	Wetland Protection/ Restoration	Restore wetlands - BMP	H			X		X							X														\$15,837	NRCS	SWCD's, ODNR, IDA		Fish and Wildlife Habitat	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
St. Marys River Watershed	Flood Mitigation	Develop program to educate building owners in flood hazard areas (including behind levees) to obtain flood insurance to close gap between insured structures and number of structures in the flood hazard area.	H												X											X			\$15,000	Maumee River Basin Commission		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	IN	Applies to entire Maumee Watershed Basin in Indiana.	

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives								Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments							
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU																		
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concerns/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)																		
Upper Maumee River Watershed	Education	Expand annual Flood Safety Awareness Week by involving communities in hosting events.	M			X																					\$15,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	Applies also to St. Joseph, Upper Maumee Watersheds.		
Portage River Watershed	Flood Mitigation	Join the Community Rating System Program of the National Flood Insurance Program.	M																									\$15,000	FEMA	NFIP, Wood, Ottawa, Sandusky, Seneca and Hancock Counties			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	OH	
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Implement 33 acres of tree planting.	H		X	X																						\$13,200	DeKalb County SWCD	St. Joseph River Watershed Initiative			Fish and Wildlife Habitat	2010-2011	IN	From St. Joseph River Watershed Initiative
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Twenty-three acres of reforestation and wetland reconstruction in the Fish Creek Region..	H		X	X																						\$13,000	St. Joseph River Watershed Initiative			Fish and Wildlife Habitat	2010	IN	From St. Joseph River Watershed Initiative	
Blanchard River Watershed	Rural Drainage Improvements	Provide drainage water management - BMP	H			X		X																				\$11,703	NRCS	SWCD's , ODNR			Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Reforestation of twenty-six acres in the Fish Creek Region.	H		X	X																						\$11,700	St. Joseph River Watershed Initiative			Fish and Wildlife Habitat	2010	IN	From St. Joseph River Watershed Initiative	
St. Joseph River Watershed	Rural Drainage Improvements	Provide drainage water management - BMP	H			X		X																				\$11,605	NRCS	SWCD's , ODNR, ISDA, MDNR, MDA			Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.
St. Marys River Watershed	Rural Drainage Improvements	Provide drainage water management - BMP	H			X		X																				\$11,304	NRCS	SWCD's , ODNR, ISDA			Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis.
Tiffin River Watershed	Rural Drainage Improvements	Provide drainage water management - BMP	H			X		X																				\$10,951	NRCS	SWCD's , ODNR, MDA, MDNR			Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Control invasive species in the entire watershed (5 year plan).	M		X	X																						\$10,000	St. Joseph River Watershed Initiative			Fish and Wildlife Habitat	2010	IN	From St. Joseph River Watershed Initiative	
St. Joseph River Watershed	Stream Flow & Quality Monitoring	Establish WQ monitoring for nutrients P and N and sediment year round (6 year plan), Cedar Creek Watershed	H			X																						\$10,000	St. Joseph River Watershed Initiative	Indiana Water Science Center			Water Quality	2010-2016	IN	From St. Joseph River Watershed Initiative
St. Marys River Watershed	Stream/ Riparian Restoration	Feasibility study of restoration projects for impacted habitat study areas.	H	X		X		X																				\$10,000	ODNR	Local stakeholders			Fish and Wildlife Habitat	2010	OH	
Upper Maumee River Watershed	Regulatory	Implement Corridor Protection Ordinances.	L			X																						\$10,000	IDEM	IDNR			Water Quality	2010-2012	OH	Implemented by individual communities, also see Maumee River Basin Commission potential actions.
Portage River Watershed	Regulatory	Implement laws and rules for new permitting requirements and operation of private home septic systems. (i.e., permits to install, operational assessments, funding mechanisms at both state and local levels to cover costs of sewage disposal program activities, public education concerning operation and maintenance)	M			X																						\$10,000	County Commissioners	County health departments, USEPA			Water Quality	2009	OH	
Portage River Watershed	Education	Limit channel maintenance programs on headwaters and smaller tributaries to maximize recovery of riparian habitat.	H			X																						\$10,000	Portage River Basin Council	County Engineer			Fish and Wildlife Habitat	2010-2014	OH	
Upper Maumee River Watershed	Stream/ Riparian Restoration	Perform feasibility study of restoration projects for impacted habitat study areas.	H		X	X																						\$10,000	ODNR	Local stakeholders			Fish and Wildlife Habitat	2010-2012	OH	
Blanchard River Watershed	Nutrient Management	Promote demonstration projects for innovative conservation tillage and cover crop practices.	M			X		X																				\$10,000	NRCS				Water Quality	2010-2014	OH	Steve Davis, OK 60909
St. Joseph River Watershed	Stormwater Management	Promote Wetland Reservoir Subsurface Irrigation Systems as a method of providing seasonal floodplain storage by "temporarily" plugging drainage tiles in late fall after crops have been harvested and then removing said plug several weeks prior to spring planting season. This dual use of property could provide water quality benefits, wildlife habitat, and stormwater runoff detention	M			X		X																				\$10,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	IN	See other MRBC watersheds.	
St. Marys River Watershed	Stormwater Management	Promote Wetland Reservoir Subsurface Irrigation Systems as a method of providing seasonal floodplain storage by "temporarily" plugging drainage tiles in late fall after crops have been harvested and then removing said plug several weeks prior to spring planting season. This dual use of property could provide water quality benefits, wildlife habitat, and stormwater runoff detention	M			X		X																				\$10,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	IN		
Upper Maumee River Watershed	Stormwater Management	Promote Wetland Reservoir Subsurface Irrigation Systems as a method of providing seasonal floodplain storage by "temporarily" plugging drainage tiles in late fall after crops have been harvested and then removing said plug several weeks prior to spring planting season. This dual use of property could provide water quality benefits, wildlife habitat, and stormwater runoff detention	M			X		X																				\$10,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2014	IN		
Upper Maumee River Watershed	Education	Public Education and improved flood warning systems.	M			X																						\$10,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN		

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WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives							Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments	
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBC	WLEB	HYDRO	DR	FRP	NPC	ENER	EU											
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBC)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)											
Maumee Bay	Education	Publish coastal design manual.	M			X																\$10,000	ODNR	USEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010	OH	ODNR Office of Coast Management is initiating a project to develop a manual.
Upper Maumee River Watershed	Rural Drainage Improvements	Provide drainage water management - BMP	H			X		X														\$6,641	NRCS	SWCD's , ODNR, IDA		Water Quality	2010-2014	OH	Conservation Treatment needs provided by Steve Davis, includes funds also for Ottawa River Watershed.
St. Marys River Watershed	Education	Expand distribution of MRBC newsletter to targeted audiences.	H			X																\$5,000	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	Postage, distribution costs. Applies to also St. Joseph, Upper Maumee Watersheds.
St. Joseph River Watershed	Habitat Restoration and/ or Protection	Perform prescribed burns on prairies/oak savannahs in the Fish Creek Region	M		X	X						X										\$4,500	St. Joseph River Watershed Initiative			Fish and Wildlife Habitat	2010	IN	From St. Joseph River Watershed Initiative
Ottawa River Watershed	Regulatory	Clarify requirements and expand the number of sites eligible for VAP.	M			X																\$0	OEPA			Water Quality	2010	OH	
Portage River Watershed	Regulatory	Clarify requirements and expand the number of sites eligible for VAP.	M			X																\$0	OEPA			Water Quality	2009	OH	
St. Marys River Watershed	Woody Debris Removal	Clear and snag logs blocking access/canoeing opportunities	M																			\$0	Maumee River Basin Commission			Resource-Based Recreation	2010	IN	see other St. Mary potential actions regarding woody debris.
Lower Maumee River Watershed	Habitat Restoration and/ or Protection	Construct multiple Habitat Restoration Units between Grassy Island and Toledo Lighthouse.	H			X	X					X										\$0	USACE	Toledo-Lucas County Port Authority and Pointe Place business association		Fish and Wildlife Habitat	2010-2014	OH	Study \$300K
Maumee Bay	Nutrient Management	Develop comprehensive nutrient management plans for all livestock farms that are not regulated by EPA/Ohio Dept of Agriculture	H			X		X														\$0	NRCS	SWCDs		Water Quality	2010-2014	OH	See specific watershed assessments. Steve Davis OK 60909.
St. Joseph River Watershed	Recreation	Develop comprehensive watershed-based recreation based plan (multi-jurisdictional) identifying gaps, priorities and potential multi-objective projects to expand recreation opportunities, reduce flooding risks and enhance attractiveness of area.	M			X																\$0	County Commissioners	Local Stakeholders		Resource-Based Recreation	2010-2014	IN	From St. Joseph River Watershed Initiative Assessment
Portage River Watershed	Water Supply	East Branch, reduce nitrates in source water to mitigate nuisance algae blooms in Fostoria Reservoirs (#5, #6)	M			X																\$0	Fostoria	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2014	OH	Per OEPA's comments on Draft Management Plan. Assumed that other actions by NRCS will address although plan is needed.
St. Marys River Watershed	Education	Education.	M			X																\$0	Maumee River Basin Commission			Water quality	2010-2014	IN	See other education potential actions.
Ottawa River Watershed	Watershed/ Community Planning	Eliminate point source and nonpoint sources of chemical and bacterial contamination.	M			X																\$0	State and local governments	ODNR, NRCS, MDEQ, NRCS		Water Quality	2010-2014	OH	Estimate needs to be refined, costs are covered in other priority actions.
Ottawa River Watershed	Habitat Restoration and/ or Protection	Restore natural resources per natural resource damage claim.	M																			\$0	U.S. Fish and Wildlife Service	OEPA, PRPs, City of Toledo		Fish and Wildlife Habitat	2011-2014	OH	Claim not finalized so dollar amount not entered, contact Dave DeVaul, USFWS, or Arnie Lunsey, OEPA.
St. Joseph River Watershed	Recreation	Establish additional public access sites to the river and waterbodies	M																			\$0	IDNR			Resource-Based Recreation	2010-2014	IN	From St. Joseph River Watershed Initiative Assessment
Portage River Watershed	Stream/ Riparian Restoration	Establish buffer width.	H		X	X																\$0	Portage River Basin Council			Fish and Wildlife Habitat	2010	OH	Can be done as part of existing programs.
Ottawa River Watershed	Stream/ Riparian Restoration	Establish buffers on over 80% of Lake Erie Watershed ditches, streams and tributaries.	H		X	X																\$0	Local governments			Water Quality	2014	OH	See other NRCS conservation practices potential actions.
Upper Maumee River Watershed	Flood Mitigation	Establish post-flood damage assessment protocol.	H																			\$0	Maumee River Basin Commission	Communities in Watershed		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011	IN	See St. Marys Watershed for cost estimate
St. Joseph River Watershed	Watershed/ Community Planning	Evaluate need for more detailed water quality data collection and analysis after WLEB study completed.	M			X																\$0	Maumee River Basin Commission	Communities in Watershed, Soil and Water Conservation Service		Water Quality	2011-2014	IN	See St. Marys Watershed for cost estimate
Upper Maumee River Watershed	Watershed/ Community Planning	Evaluate need for more detailed water quality data collection and analysis after WLEB study completed.	M			X																\$0	Maumee River Basin Commission	Communities in Watershed, Soil and Water Conservation Service		Water Quality	2011-2014	IN	See St. Marys Watershed for cost estimate
St. Marys River Watershed	Flood Mitigation	Expand and protect parks along the St. Marys River, in the interest of protecting floodplains, via measures such as conservation easements, NRCS Floodplain Easements, the wetland reserve program and the CREP program.	H																			\$0	NRCS	SWCD, Counties		Resource-Based Recreation	2010-2014	OH	See specific conservation treatment needs in the watershed. Originally was \$1,000,000
Tiffin River Watershed	Studies	Follow up monitoring to assess TMDL implementation success.	M			X																\$0	OEPA	MDEQ		Water Quality	2014	OH	At this point TMDL will not be completed within time frame so no estimate provided.
Auglaize River Watershed	Education	Fund and provide additional NRCS field staff within the watershed to implement and administer the additional 2008 Farm Bill federal conservation contracts needed to accelerate the conservation land treatment in the watershed.	H			X																\$0	NRCS	ODA, SWCD's, ODNR, ISDA		Water Quality	2010-2014	OH	No estimate provided. \$\$ (20% TA) included with CRP & WRP easement & land retirement program needs per Steve Davis.
Blanchard River Watershed	Education	Fund and provide additional NRCS field staff within the watershed to implement and administer the additional 2008 Farm Bill federal conservation contracts needed to accelerate the conservation land treatment in the watershed.	H			X																\$0	NRCS	ODA, SWCD's, ODNR		Water Quality	2010-2014	OH	No estimate provided. \$\$ (20% TA) included with CRP & WRP easement & land retirement program needs per Steve Davis.
Lower Maumee River Watershed	Education	Fund and provide additional NRCS field staff within the watershed to implement and administer the additional	H			X																\$0	NRCS	ODA, SWCD's, ODNR		Water Quality	2010-2014	OH	No estimate provided. \$\$ (20% TA) included with CRP & WRP easement & land retirement program needs per Steve

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WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives						Cost Estimate	Lead	Support	Existing/Prospective Authority	WLEB Study Category	Time Frame	State	Comments	
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBC	WLEB	HYDRO	DR	FRP	NPC	ENER	EU										
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBC)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)										
Portage River Watershed	Education	Fund and provide additional NRCS field staff within the watershed to implement and administer the additional 2008 Farm Bill federal conservation contracts needed to accelerate the conservation land treatment in the watershed.	H			X															\$0	NRCS	ODA, SWCD's, ODNR		Water Quality	2010-2014	OH	No estimate provided. \$\$ (20% TA) included with CRP & WRP easement & land retirement program needs per Steve Davis.
St. Joseph River Watershed	Education	Fund and provide additional NRCS field staff within the watershed to implement and administer the additional 2008 Farm Bill federal conservation contracts needed to accelerate the conservation land treatment in the watershed.	H			X															\$0	NRCS	ISDA, SWCD's, MDNR, MDA, ODA, ODNR		Water Quality	2010-2014	IN	No estimate provided. \$\$ (20% TA) included with CRP & WRP easement & land retirement program needs per Steve Davis.
St. Marys River Watershed	Education	Fund and provide additional NRCS field staff within the watershed to implement and administer the additional 2008 Farm Bill federal conservation contracts needed to accelerate the conservation land treatment in the watershed.	H			X															\$0	NRCS	ISDA, SWCD's, ODNR, ODA		Water Quality	2010-2014	IN	No estimate provided. \$\$ (20% TA) included with CRP & WRP easement & land retirement program needs per Steve Davis.
Tiffin River Watershed	Education	Fund and provide additional NRCS field staff within the watershed to implement and administer the additional 2008 Farm Bill federal conservation contracts needed to accelerate the conservation land treatment in the watershed.	H			X															\$0	NRCS	ODA, SWCD's, ODNR, MDA, MDNR		Water Quality	2010-2014	OH	No estimate provided. \$\$ (20% TA) included with CRP & WRP easement & land retirement program needs per Steve Davis.
Upper Maumee River Watershed	Education	Fund and provide additional NRCS field staff within the watershed to implement and administer the additional 2008 Farm Bill federal conservation contracts needed to accelerate the conservation land treatment in the watershed.	H			X															\$0	NRCS	ODA, SWCD's, ODNR, ISDA		Water Quality	2010-2014	OH	No estimate provided. \$\$ (20% TA) included with CRP & WRP easement & land retirement program needs per Steve Davis.
Portage River Watershed	Wastewater	General Plan, sewers and WWTP.	M			X															\$0	Locust Point			Water Quality	2011-2013	OH	Need estimate, not provided.
Upper Maumee River Watershed	Flood Mitigation	Implement environmentally friendly flood control measures.	H									X									\$0	County Engineer	County engineers		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2014	IN	See other potential action projects identified by Maumee River Basin Commission.
St. Joseph River Watershed	Recreation	Implement local Park Department Recreation Plans with emphasis on projects that provide multi-objective benefits.	H		X						X					X	X				\$0	Local Park Districts			Resource-Based Recreation	2010-2014	IN	From St. Joseph River Watershed Initiative Assessment
Portage River Watershed	Regulatory	Implement Ohio's Aquatic Nuisance species Plan.	L	X		X															\$0	ODNR			Fish and Wildlife Habitat	2010	OH	Need estimate
Lower Maumee River Watershed	Wetland Protection/Restoration	Implement PCS Wetland & Riparian Inventory and Restoration Plans for Swan Creek and the Ottawa River for habitat creation/restoration, wetland creation/restoration, bank stabilization in Swan Creek watershed.	H			X	X	X													\$0	Partners For Clean Streams (PCS)			Water Quality	2010-2014	OH	includes concept plans and MetroParks priority GLRI projects in AOC, including acquisition of some parcels, Provided by PCS, Kris Patterson, 73009 no \$\$ provided by Kris...
St. Joseph River Watershed	Recreation	Implement River Greenway Plan.	H		X						X					X	X				\$0	County Commissioners	Local Park Districts		Resource-Based Recreation	2010-2014	IN	From St. Joseph River Watershed Initiative Assessment
Upper Maumee River Watershed	Brownfield Remediation	Improve hazardous waste cleanup programs by providing resources for cleanup; establishing a cleanup fund for sites which impact public health; establishing a	M			X		X	X												\$0	OPEA	IDEM		Water Quality	2010-2014	IN	See St. Marys potential actions for estimated costs.
Tiffin River Watershed	Nutrient Management	Increase agricultural programs aimed at reducing sediment - buffer zones, conservation tillage, filter strips	H			X		X				X									\$0	State and federal agencies			Water Quality	2010-2014	OH	See other Tiffin potential action, program implementation and demonstration.
St. Joseph River Watershed	Recreation	Link ongoing Sec. 205 feasibility results with local partnerships opportunities to enhance recreation opportunities for area residents.	H		X							X				X	X				\$0	USACE	Local stakeholders		Resource-Based Recreation	2010-2014	IN	From St. Joseph River Watershed Initiative Assessment
St. Marys River Watershed	Flood Mitigation	Mandate no floodplain filling or development in the floodplain/buffer area; buy adjacent land or easements on adjacent land.	H									X									\$0	Maumee River Basin Commission			Water quality	2010-2014	IN	See other flood mitigation potential actions.
Upper Maumee River Watershed	Flood Mitigation	Mandate no floodplain filling or development in the floodplain/buffer area; buy adjacent land or easements on adjacent land.	M									X									\$0	Maumee River Basin Commission			Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2009-2014	IN	
St. Joseph River Watershed	Stormwater Management	NPDES Phase II Implementation	M			X		X				X									\$0	Hunterstown	IDEM		Water Quality	2010-2014	IN	From St. Joseph River Watershed Initiative
St. Joseph River Watershed	Stormwater Management	NPDES Phase II Implementation	M			X		X				X									\$0	Indiana Institute of Technology	IDEM		Water Quality	2010-2014	IN	From St. Joseph River Watershed Initiative
St. Joseph River Watershed	Stormwater Management	NPDES Phase II Implementation	M			X		X				X									\$0	Indiana/ Purdue Fort Wayne University	IDEM		Water Quality	2010-2014	IN	From St. Joseph River Watershed Initiative
St. Joseph River Watershed	Stormwater Management	NPDES Phase II Implementation	M			X		X				X									\$0	Ivy Tech State College Northeast	IDEM		Water Quality	2010-2014	IN	From St. Joseph River Watershed Initiative
St. Joseph River Watershed	Stormwater Management	NPDES Phase II Implementation	M			X		X				X									\$0	Saint Francis University	IDEM		Water Quality	2010-2014	IN	From St. Joseph River Watershed Initiative
St. Marys River Watershed	Flood Studies	Perform hydraulics/hydrology studies.	L								X		X								\$0	SWCD's			Commercial and Recreational Navigation	2011-2014	OH	Need more project details
Upper Maumee River Watershed	Studies	Perform water quality study.	L			X		X	X												\$0	Maumee River Basin Commission	IDEM		Water Quality	2010-2012	IN	See other potential actions.
Maumee Bay	Watershed/Community Planning	Prepare watershed action plan to establish restoration priorities, funding sources and schedule.	H			X															\$0	Watershed Groups			Water Quality	2010	OH	See specific watershed assessments.

APPENDIX A: COMPREHENSIVE WLEB POTENTIAL ACTIONS MATRIX DATABASE

WLEB Watershed	Project/Program Category	Potential Action	Priority Level	Great Lakes Regional Collaboration Based Strategic Objectives										WLEB Partnership Strategic Objectives								Cost Estimate	Lead	Support	Existing/ Prospective Authority	WLEB Study Category	Time Frame	State	Comments
				AIS	HC	SH/WQ	AOC	NPS	TOX	INFO	SBG	WLEB	HYDRO	DR	FRP	NPC	ENER	EU											
				Aquatic Invasive Species (AIS)	Habitat Conservation and Species Management (HC)	Stream and Coastal Health/Water Quality (SH/WQ)	Areas of Concern/ Contaminants (AOC)	Nonpoint Source Pollution (NPS)	Toxics (TOX)	Information Base/ Representative Scientific Indicators (INFO)	Sustainable and Balanced Growth (SBG)	WLEB Partnership (WLEB)	Hydrologic Management/ Flooding Attenuation (HYDRO)	Dredging (DR)	Forest Resource Protection (FRP)	Native Plant Community Protection (NPC)	Sustainable Energy Production (ENER)	Public Information/ Education (EU)											
Maumee Bay	Nutrient Management	Promote precision application of fertilizer/ manure to reduce excess nitrate runoff.	M			X		X													\$0	County SWCD			Water Quality	2010-2014	OH	See other WLEB watershed assessments.	
Maumee Bay	Sediment & Erosion Control	Provide agricultural BMP incentives to reduce sediment and nutrient transport to streams.	H			X						X									\$0	NRCS			Water Quality	2010-2014	OH	See specific watershed assessments. Steve Davis OK 60909.	
St. Marys River Watershed	Flood Mitigation	Purchase homes for demolition along Winchester Road and place levees to compensate for the 100-yr flood elevation.	H									X									\$0	Fort Wayne	FEMA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2012	IN	Need cost estimate, also should this be rolled up under flood control?	
Auglaize River Watershed	Wastewater	Reduce CBOD, ammonia limits in Delphos permit limits and increase min DO levels.	M			X															\$0	Delphos	OEPA		Water Quality	2012-2014	OH	Need to determine costs to comply.	
Auglaize River Watershed	Wastewater	Reduce nutrient permit limits in Spencerville WWTP	M			X															\$0	Spencerville	OEPA		Water Quality	2012-2014	OH	Need to determine costs to comply.	
Ottawa River Watershed	Watershed/ Community Planning	Reduce Pollutant loadings.	M			X															\$0	City of Toledo			Water Quality	2012-2014	OH	See other potential actions for estimated costs for reducing loadings.	
Maumee Bay	Combined Sewer Overflow	Reduce/eliminate impacts of CSOs and SSOs.	H			X						X									\$0	City of Toledo	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH	See Lower Maumee Assessment for costs and time frame.	
Blanchard River Watershed	Combined Sewer Overflow	Reduce/eliminate impacts of CSOs in the impounded stretch of River.	H			X						X									\$0	Findlay	USEPA, OEPA	USEPA	Water Quality	2008-10 yr	OH	See Blanchard Assessment (LTCP)	
Ottawa River Watershed	Brownfield Remediation	Remediate landfills and other source areas of industrial contamination that affect sediment quality and implement widespread measures to control the runoff of nutrients and pesticides.	M			X	X	X	X												\$0	OEPA	USEPA		Water Quality	2010-2014	OH	Landfills are in compliance. Sediment remediation planned for spring 2009. Additional post implementation study needed?	
Upper Maumee River Watershed	Woody Debris Removal	Remove logs and snags to enhance recreational boating opportunities on Upper Maumee	M									X									\$0	Soil and Water Conservation Districts			Commercial and Recreational Navigation	2011-2014	IN	See other potential actions involving woody debris removal.	
St. Marys River Watershed	Combined Sewer Overflow	Require all CSO sources to develop, and subsequently implement, long term control plans or a CSO elimination strategy.	H			X						X									\$0	USEPA	USEPA, OEPA	USEPA	Water quality	2009-2014	IN	Need estimate, not provided.	
St. Joseph River Watershed	Recreation	Secure additional funding support to maintain existing recreation infrastructure and address maintenance gaps.	H		X							X	X								\$0	Local Park Districts			Resource-Based Recreation	2010-2014	IN	From St. Joseph River Watershed Initiative Assessment	
Auglaize River Watershed	Stormwater Management	Stormwater pump and equalization basin	H			X						X									\$0	Van Wert	OEPA		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2011-2014	OH	Part of Van Wert CSO program? See CSO.	
Portage River Watershed	Water Supply	Update Northwest Ohio Water Plan.	H									X									\$0	ODNR	USGS - Ohio Division		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2011	OH	See general priority potential actions.	
St. Marys River Watershed	Water Supply	Update Northwest Ohio Water Plan.	H									X									\$0	ODNR	Division of Water, USGS - Ohio Division		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2011	OH	See general priority potential actions.	
Upper Maumee River Watershed	Water Supply	Update Northwest Ohio Water Plan.	H									X									\$0	ODNR	Division of Water, USGS - Ohio Division		Flood Risk Management, Water Supply, Sedimentation, and Bank Erosion	2010-2011	OH	See WLEB potential actions.	
Maumee Bay	Recreation	Use CDFs for recreational, wildlife habitat and other uses.	H																		\$0	ODNR	USFWS, USACE		Commercial and Recreational Navigation	2012-2016	OH	See other potential priority actions, Maumee Bay and Lower Maumee.	