



Appendix 1
Management Plans

APPENDIX 1 – MANAGEMENT PLANS

Complete Management Plan Matrix	1-1
Management Plan – Costs	1-48
Management Plan – Timeline / Priorities	1-54



LA MOINE RIVER MANAGEMENT PLAN – COMPLETE

The following 45 pages contain the complete Management Plan matrix, containing Objectives, Strategies, Action Items, as well as projected costs, likely resources and a desired time for completion. The two sections following contain the same information reorganized for easy review, first separating costs and secondly reorganizing the timeline chronologically for the sake of identifying priorities.

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
A. Increase by at least 7,000 acres the amount of wildlife habitat and nature communities protected through conservation easements.	1. Develop informational materials, print and electronic, that describe available programs with local contact information.	\$2,500 (est.)	<ul style="list-style-type: none"> Research / compile available materials and resource needs 	NRCS; FWS; IDNR; EPA; others	2007
			<ul style="list-style-type: none"> Research funding sources 		2007
			<ul style="list-style-type: none"> Print and distribute new information 		2007
	2. Target conservation easements in priority 'protection' sub watersheds	N/A	<ul style="list-style-type: none"> Review list of inventory areas most needing protection identified by IDNR 		2006



GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Identify 3 critical (priority) HUC 12 sub-watersheds 		Completed
			<ul style="list-style-type: none"> Contact landowners within priority areas 	NRCS; FWS; IDNR; EPA; IWPC; others	2007
	3. Direct land protection efforts to connect fragmented habitat	N/A	<ul style="list-style-type: none"> Develop scoring criteria for prioritizing land protection activities/grants 	LMREP planning committee	2008
			<ul style="list-style-type: none"> Prioritize grant applications that connect fragmented habitat & apply for grants 	LMREP Board	2007
	4. Utilize CREP, C2000, IEPA 319, and other forms of grant programs	N/A	<ul style="list-style-type: none"> Research and develop a comprehensive database of available grant programs, deadlines, contact information, requirements etc. 	C2000 on-line grants database	2006

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Contact self-identified interested landowners to promote enrollment in programs 	NRCS; FWS; EPA; DNR; NPC; others	2007
	5. Establish at least 1000 acres of prairie habitat	\$1,500,000 (1000ac @ \$1500/ac)	<ul style="list-style-type: none"> Utilize incentive programs and grant opportunities to establish habitat 	NRCS; FWS; EPA; DNR; NPC; others	2018
			<ul style="list-style-type: none"> Contact landowners 		2007
	6. Establish at least 5000 acres of forested habitat:	\$5,000,000 (5000ac @ \$1000/acre)	<ul style="list-style-type: none"> Utilize incentive programs and grant opportunities to establish habitat 	NRCS; FWS; EPA; DNR; NPC; others	2018
	a) 2500 acres upland forest		<ul style="list-style-type: none"> Contact landowners 		2007
	b) 2500 acres bottomland forest		<ul style="list-style-type: none"> Contact landowners 		2007
	7. Establish at least 1000 acres of wetland habitat	\$3,000,000 (1000 acres @ \$3000/acre; could vary – conservative estimate)	<ul style="list-style-type: none"> Utilize incentive programs and grant opportunities to establish habitat 	NRCS; FWS; EPA; DNR; NPC; others	2018

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Contact landowners 		2007
	8. Establish link between existing forests in watershed.	N/A	<ul style="list-style-type: none"> Identify priority links 	LMREP Board; C2000 grants	2008
			<ul style="list-style-type: none"> Use incentive programs, easements, acquisitions to establish links 	NRCS; FWS; IDNR; EPA; INPC; others	2008
	9. Host workshop to promote and explain land management programs related to easements	\$500	<ul style="list-style-type: none"> Plan, organize, advertise and implement workshop 	LMREP, with assistance from other agencies	2008
	10. Keep track of all land protection	N/A	<ul style="list-style-type: none"> Obtain information from other agencies involved in land protection 	NRCS; FWS; DNR; EPA; INPC; others	2007
			<ul style="list-style-type: none"> Develop GIS database of land protected within partnership area 	Jeff Boeckler / IDNR	2007
			<ul style="list-style-type: none"> Update database on regular basis 	Jeff Boeckler / IDNR	2007, ongoing

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
B. Protect five INAI* natural areas through conservation easements. <i>* Illinois Natural Areas Inventory</i>	1. Identify and inventory areas most needing protection.	N/A	Brown County:	INPS; NAS; Angella Moorehouse	Completed
			<ul style="list-style-type: none"> Little Missouri Creek Dells (forest; barrens; stream) 		
			<ul style="list-style-type: none"> Snyder Hill Prairie (prairie) 		
			Schuyler County		
			<ul style="list-style-type: none"> Browning Woods (forest) 		
			<ul style="list-style-type: none"> Sugar Creek (barrens) 		Completed
			<ul style="list-style-type: none"> La Moine River (section of stream north of Brooklyn) 		Completed
	2. Facilitate protection for priority INAI sites	N/A	<ul style="list-style-type: none"> Contact landowners and promote protection of these INAI sites 	INPC; Angella Moorehouse	2015

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
C. Educate 20% of stakeholders about the restoration, preservation and best management practices of biodiversity through at least five media.	1. Identify and recognize those exercising good management practices related to restoration, preservation and best management practices.	N/A	<ul style="list-style-type: none"> Develop a mailing list of those currently enrolled in CRP/CREP (prioritize those with land protection practices in place) 	NRCS; SWCD	2007
		N/A	<ul style="list-style-type: none"> Contact state and local organizations to get a mailing list of those individuals involved in the preservation and best management of natural resources 	NRCS; SWCD; IDNR; NPC; IEPA; Nature Conservancy; Beef Board; Pheasants Forever; Ducks Unlimited; Environmental Education Association; US Fish and Wildlife; Health Department	2008
			<ul style="list-style-type: none"> Identify potential showcase sites 	LMREP	2008, ongoing

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
		N/A	<ul style="list-style-type: none"> Invite those individuals to take part in watershed tours and speak to others 	LMREP	2008
		N/A	<ul style="list-style-type: none"> Invite those individuals to present at watershed meetings 	LMREP	2008
		N/A	<ul style="list-style-type: none"> Feature those individuals in newsletters or other forms of media / press releases 	LMREP	2008
		N/A	<ul style="list-style-type: none"> Hold workshop to showcase willing landowners' successes 	LMREP	2008
			<ul style="list-style-type: none"> Develop annual award to recognize outstanding conservation landowner 	LMREP	2008; then annually

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	2. Update IDNR booklet (1994) that lists financial and technical programs	\$2,500 (est.)	<ul style="list-style-type: none"> Consult with agencies for updated information to revise booklet 	LMREP; IDNR	2007
			<ul style="list-style-type: none"> Apply for grant to update Landowner Conservation Incentives book 	LMREP; IDNR	2008
			<ul style="list-style-type: none"> Distribute booklets to agencies, landowners, and so on 	LMREP; IDNR	2008
	3. Conduct outreach to educate landowners to identify and remove invasive species.		<ul style="list-style-type: none"> As part of LMREP workshop, have expert speak on invasive species control issues 	LMREP; University of Illinois Extension Educators; other specialists	2008
			<ul style="list-style-type: none"> Develop list or resources available to landowners on exotic species control issues and make available 	LMREP; NRCS; University of Illinois Extension	2008



GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	4. Work with nurseries and landscapers to stop selling non-native species.	N/A	<ul style="list-style-type: none"> Work with Ben Dolbeare at IDNR Natural Heritage 	LMREP coordinate with Dolbeare	2007
	5. Host 5 workshops to promote and explain land management programs.	\$2500	<ul style="list-style-type: none"> Develop Host Workshop itinerary 		2008, ongoing
			<ul style="list-style-type: none"> Contact willing landowners and those groups and individuals on existing mailing lists, invite to workshop 	LMREP, USDA, NRCS, IDNR, IEPA, US Fish and Wildlife	2008, ongoing
			<ul style="list-style-type: none"> Promote to the general public, other landowners or those who have expressed interest in helping 	LMREP	2008, ongoing
D. Improve five INAI* sites. <i>* Illinois Natural Areas Inventory</i>	1. Prioritize all existing INAI sites based on need for restoration/management	N/A	<ul style="list-style-type: none"> Provide list of top five priority INAI sites in need or restoration management 	Angella Moorehouse; INPC	Completed

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	2. Promote use of the following management activities on top 5 prioritized sites a) Prescribed Fire b) Exotic Species Removal c) Other as deemed necessary		<ul style="list-style-type: none"> Host land management workshop to train potential volunteers 	LMREP; INPC; IDNR	2010
E. Restore at least 10,000 acres of wildlife habitat.	1. Disseminate informational materials, print and electronic, that describe available programs with local contact information.	\$2,500 (est.)	<ul style="list-style-type: none"> Compile existing information Develop new materials, outreach as needed 	LMREP; IDNR; C2000	2010
	2. Promote restoration activities in priority "restoration" watersheds first	N/A	<ul style="list-style-type: none"> Contact landowners in priority areas 	LMREP	2010
	3. Provide outreach activities; secure funding to do this.	\$20,000	<ul style="list-style-type: none"> Conduct additional outreach activities to identify 'willing' landowners. 		2007, ongoing
			<ul style="list-style-type: none"> Identify grant opportunities and apply for funding 	LMREP; IDNR; C2000	2010

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	4. Identify location and type of appropriate BMP for restoration activity; utilize and implement the following amount of BMPs:		<ul style="list-style-type: none"> Contact NRCS and request assistance 	NRCS	2010
	a) at least 2,900 acres of riparian buffer strips	\$3,480,000 (2,900 acres @ \$1,200/acre)	<ul style="list-style-type: none"> Contact NRCS and request assistance 	NRCS	2010
	b) at least 500 acres (or 5% of existing wetland acreage) wetland restoration	\$1,250,00 (500 acres @ \$2,500/acre avg.; will vary based on site condition)	<ul style="list-style-type: none"> Contact NRCS and request assistance 	NRCS	2010
	c) at least 3,500 acres forest restoration/TSI (combined upland/bottomland forest)	\$3,500,00 (3,500 acres @ \$1,000/acre)	<ul style="list-style-type: none"> Contact NRCS and District IDNR Forester and request assistance 	IDNR Forester; NRCS	2010
	d) at least 3,000 acres grassland habitat	\$3,000,000 (3,000 acres @ \$1,000/acre)	<ul style="list-style-type: none"> Contact NRCS and request assistance 	NRCS	2010



GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	e) at least 100 acres urban green space (rain gardens)	\$100,000 (100 acres @ \$1,000/acre)	<ul style="list-style-type: none"> • Contact Pella to consider rain garden as part of development • Contact Macomb City Forester 	LMREP; WIU; Macomb park District	2010
	5. Host workshop to promote and explain land management programs for the above strategies / BMPs	\$500		LMREP; IDNR; NRCS; others	2009
Cost Subtotal		\$20,861,000			

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
A. Reduce the number of IEPA impaired streams by one (1) and/or increase one (1) CTAP* stream by at least one step (poor to fair; fair to good; good to excellent). <i>* Critical Trends Assessment Program</i>	1. Target water quality improvement activities in sub-watersheds prioritized for water quality and restoration	N/A	No further action required		Completed

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	2. Complete 100 nutrient management plans, including applicable incentive payments	\$200,000 (100 plans @ \$2,000/plan; excludes cost for incentive payments)	<ul style="list-style-type: none"> Identify those landowners who have already expressed an interest where nutrient management planning has not been completed and soils tests are available 	Local TSP NRCS/SWCD	2007
			<ul style="list-style-type: none"> Secure funding, contact landowners and conduct nutrient management planning 	Local TSP SWCD; EQIP C2000; IDOA	2009
	3. Install 500 acres of riparian buffer strips a) 250 acres grassland b) 250 acres bottomland forest	\$600,000 (500 acres @ \$1,200/acre)	<ul style="list-style-type: none"> Identify those landowners who have already expressed an interest. 	IDNR, LMREP, NRCS	2007
			<ul style="list-style-type: none"> Identify and secure alternative funding sources 	CRP; CREP: C2000, 319	2007

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Identify and contact additional landowners within areas eligible for these types of practices 		2008
			<ul style="list-style-type: none"> Conduct necessary survey and design and Install 100 acres annually 	Local TSP IDNR, NRCS	2010
	4. Install 100 grassed waterways	\$240,000 (200 acres @ \$1,200/acre; avg 2 acres per waterway)	<ul style="list-style-type: none"> Identify those landowners who have already expressed an interest. 	IDNR, LMREP, NRCS	2007
			<ul style="list-style-type: none"> Identify and secure alternative funding sources 	CRP; CREP: C2000, 319	2007
			<ul style="list-style-type: none"> Identify and contact additional landowners within areas eligible for these types of practices 		2008

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Conduct necessary survey and design and Install 20 (40 ac) annually 	IDNR, NRCS, Local TSP	2010
	5. Identify and inventory channelized stream segments most appropriate for improvement.	\$5,000	<ul style="list-style-type: none"> Secure funding to conduct inventory in priority watersheds 	Private Contractor, IDNR streams biologist	2008
	6. Increase in-stream habitat in channelized streams. <ul style="list-style-type: none"> a) Re-meander 1 stream b) Re-connect 1 channelized stream segment to original floodplain 	Cost estimate not available	<ul style="list-style-type: none"> Utilize inventory results to prioritize locations, determine feasibility, research and secure funding 	IDNR; Army Corps of Engineers; IEPA	2009
			<ul style="list-style-type: none"> Conduct necessary design and engineering and implement 	IDNR; Army Corps of Engineers; IEPA, Private Contractor	2010

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	7. Install 10 treatment wetlands adjacent to or upstream of an impaired stream or within a prioritized sub watershed	\$450,000 (100 acres @ \$4,500/acre; assumes avg 10 acre wetlands)	<ul style="list-style-type: none"> Identify those landowners within areas eligible for these types of practices who have already expressed an interest. 	IDNR, LMREP, NRCS	2007
			<ul style="list-style-type: none"> Identify and secure alternative funding sources 	CRP; CREP: C2000, 319	2008
			<ul style="list-style-type: none"> Conduct necessary survey and design and install 2 wetlands or 20 acres per year 	IDNR, Local TSP, Private Contractor	2010
B. Educate stakeholders about surface and groundwater resources through at least five media.	1. Identify and recognize those exercising good management practices related to maintaining or improving water resources.	N/A	<ul style="list-style-type: none"> Develop a mailing list of those currently enrolled in CRP/CREP (prioritize those with land practices related to water quality) 		2007

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Contact state and local organizations to get a mailing list of those individuals involved in water quality improvement 	NRCS, SWCD, IDNR, Nature Preserves commission, IEPA, Nature Conservancy, Beef Board, Pheasants Forever, Ducks Unlimited, Environmental Education Association	2008
			<ul style="list-style-type: none"> Invite those individuals to take part in watershed tours and speak to others 	LMREP	2008, ongoing
			<ul style="list-style-type: none"> Invite those individuals to present at watershed meetings 	LMREP	2008, ongoing
			<ul style="list-style-type: none"> Feature those individuals in newsletters or other forms of media/press releases 	LMREP	2008, ongoing



GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	2. Support and expand storm drain stenciling programs within the watershed area.	N/A (Cost will be covered with local volunteers)	<ul style="list-style-type: none"> Contact municipalities (Macomb, Carthage, Rushville) in the watershed 	Prairie Rivers Network	2008
			<ul style="list-style-type: none"> Contact Prairie Rivers network 	LMREP	2008
			<ul style="list-style-type: none"> Select 2-3 willing communities and host events 	LMREP	2008, ongoing
	3. Acquire informational materials, print and electronic, that describe available programs with local contact information.	\$2,500 (est.)	<ul style="list-style-type: none"> Research particular information related to available programs and organizations 	LMREP NRCS, IDNR, US corps, SWCD, US Fish and Wildlife	2008
			<ul style="list-style-type: none"> Contact partnering organizations 		2008
	4. Identify recharge areas or areas of critical groundwater resources and inform governmental units.	N/A (Cost will be covered by local IDNR / IEPA staff)	<ul style="list-style-type: none"> Utilize existing information available from IEPA and IDNR to identify specific areas 	IDNR, IEPA, Health Departments; SWCD	2008
			<ul style="list-style-type: none"> Inform local governments 	LMREP	2008



GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	5. Host 5 workshop to promote and explain land management programs available for groundwater and surface water protection	\$2500	<ul style="list-style-type: none"> Target willing landowners and those groups and individuals on existing mailing list 	NRCS, IDNR, US corps, SWCD, US Fish and Wildlife, IEPA	2008
			<ul style="list-style-type: none"> Promote to the general public, other landowners or those who have expressed interest in helping 		2008
C. Increase total stream feet buffered in headwaters area by 10%.	1. Field verify existing buffers and inadequate buffers in prioritized sub watersheds	\$3000	<ul style="list-style-type: none"> Grant proposal submitted to IEPA 	IDNR	2008
	2. Enlist 1-2 landowners in headwater area to participate in demonstration project.	N/A	<ul style="list-style-type: none"> Research and identify new technologies and systems aimed at improving water quality. 	NRCS Tech Center; Plant Materials Center; U of I; Other Major Universities in the Midwest	2008
			<ul style="list-style-type: none"> Link willing landowners with demonstration project 		2009



GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	3. Utilize existing BMPs a) Grassland riparian buffer b) Forested riparian buffers	N/A – see previous cost estimates for riparian buffers	<ul style="list-style-type: none"> Identify those landowners who have already expressed an interest. 	IDNR, LMREP, NRCS	2007
			<ul style="list-style-type: none"> Identify and contact additional landowners within areas eligible for these types of practices 		2008
			<ul style="list-style-type: none"> Identify and secure alternative funding sources 	CRP; CREP: C2000, 319	2008
			<ul style="list-style-type: none"> Conduct necessary survey and design and install 50 acres per year 	Local TSP IDNR, NRCS	2010
D. Monitor water quality downstream of all future projects utilizing chemical and biological assessment techniques where applicable	1. Report annual changes in 303(d) listed streams	N/A; local agency staff will report	<ul style="list-style-type: none"> Drowning Fork East Fork La Moine Spring Lake Lake Argyle 	IEPA; TMDL Report	As available



GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	2. See monitoring plan	Cost estimate not available	<ul style="list-style-type: none"> No further action required 	Illinois River Watch Network	2010
E. Encourage ten landowners along 1 st , 2 nd order streams to participate in livestock management programs.	1. Conduct inventory of existing hog/cattle operations in the watershed	\$6,000	<ul style="list-style-type: none"> Grant submitted to IEPA 2005 	IDNR; IEPA	2007
	2. Identify and recognize those utilizing livestock management programs successfully.	N/A	<ul style="list-style-type: none"> Contact state and local organizations to get a mailing list of those individuals involved in progressive livestock management 	NRCS; SWCD; IDNR; IEPA; Beef Board; Association; Health Department	2008
			<ul style="list-style-type: none"> Identify potential showcase sites 	LMREP	2008
			<ul style="list-style-type: none"> Invite those individuals to take part in watershed tours and speak to others 	LMREP	2008
			<ul style="list-style-type: none"> Invite those individuals to present at watershed meetings 	LMREP	2008

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Feature those individuals in newsletters or other forms of media/press releases 	LMREP	2008
			<ul style="list-style-type: none"> Hold workshop to showcase willing landowners' successes 	LMREP	2008
			<ul style="list-style-type: none"> Develop annual award to recognize outstanding livestock management 	LMREP	2008
	3. Target producers with 20-50 animal units with proximity to water resource; 1 st and 2 nd order streams receive priority	N/A	<ul style="list-style-type: none"> No further action required 	LMREP, IDNR, NRCS	2007, ongoing
	4. Encourage 5 livestock waste management facilities	\$50,000 (5 facilities @ \$10,000/facility; conservative estimate - cost will vary)	<ul style="list-style-type: none"> Utilize results from survey; identify and prioritize operations based on proximity to surface water, and density 	IDNR	2008

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Research and identify appropriate funding sources 	EQUIP, 319, C2000	2008
			<ul style="list-style-type: none"> Conduct necessary survey and design and implement 1 per year 	Local TSP, IDNR, NRCS	2010
	5. Install 10,000 feet of livestock fencing adjacent to streams	\$22,000 (10,000ft @ \$2.20/ft)	<ul style="list-style-type: none"> Utilize results from survey; identify and prioritize operations based on proximity to surface water, and density 	IDNR	2008
			<ul style="list-style-type: none"> Research and identify appropriate funding sources 	EQUIP, 319, C2000	2008
			<ul style="list-style-type: none"> Conduct necessary survey and design and implement 2000 ft per year 	Local TSP, IDNR, NRCS	2010

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	6. Install 5 clean water diversions around existing operations	\$27,500 (5 operations @ \$5,500/operation; cost will vary – estimate based on 1 acre facilities with approx. 200 animal units)	<ul style="list-style-type: none"> Utilize results from survey; identify and prioritize operations based on proximity to surface water, and density 	IDNR	2008
			<ul style="list-style-type: none"> Research and identify appropriate funding sources 	EQUIP, 319, C2000	2008
			<ul style="list-style-type: none"> Conduct necessary survey and design and implement 1 per year 	Local TSP, IDNR, NRCS	2010
	7. Acquire informational materials, print and electronic, that describe available programs with local contact information.	\$2,500 (est.)	<ul style="list-style-type: none"> Research particular information related to available programs and organizations 	NRCS, SWCD, LMREP, Illinois Beef Producers Association; Internet	2007
			<ul style="list-style-type: none"> Contact partnering organizations 		2007



GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	8. Host 2 workshops to promote and explain land management programs related to livestock management	\$1000	<ul style="list-style-type: none"> Target willing landowners and those groups and individuals on existing mailing list 	NRCS, SWCD, LMREP, Illinois Beef Producers Association and other organizations	2007, ongoing
			<ul style="list-style-type: none"> Promote to the general public, other landowners or those who have expressed interest in helping 		2007, ongoing
Cost Subtotal		\$1,612,000			

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
A. Reduce Sheet and Rill Erosion entering streams by 10% on eroding ground.	1. Prioritize work in sub watersheds identified for erosion reduction	N/A	<ul style="list-style-type: none"> No further Action required 		Completed
	2. Field verify erosion prediction model and verify the location of fields with conventional tillage occurring	\$3,000	<ul style="list-style-type: none"> Submit proposal for funding 	IEPA/IDNR	Completed

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Identify soils with less than 2% slopes 	IDNR	2006
			<ul style="list-style-type: none"> Verify those operators still utilizing conventional tillage 	FSA	2006
	3. Create demonstration projects to educate landowners and other appropriate stakeholders.	N/A (Cost reflected in other BMPs)	<ul style="list-style-type: none"> Research and identify new technologies and systems aimed at reducing sheet and rill erosion. 	NRCS Tech Center; Plant Materials Center; U of I; Other Major Universities in the Midwest	2008
			<ul style="list-style-type: none"> Link willing landowners with demonstration project 		2009
	4. Focus any soil erosion funding on those who have already expressed interest.	N/A	<ul style="list-style-type: none"> Utilize local signup list at county NRCS/SWCD offices 	NRCS/SWCD	2007
			<ul style="list-style-type: none"> Utilize LMREP willing landowner list 	LMREP	2007
	5. Provide incentive payments for no till or conservation till on 10,000 acres of B slopes or greater.	\$100,000 (10,000 acres @ \$10/acre; per acre cost could vary)	<ul style="list-style-type: none"> Research other efforts 	SWCD/NRCS	2007

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Research funding sources 		2007
			<ul style="list-style-type: none"> Partner with FSA to identify conventional tillage on B slopes or greater 	FSA; SWCD; NRCS	2007
			<ul style="list-style-type: none"> Secure Funding 	CPP – SWCD; 319 - IEPA	2008
	6. Install 100 filter strips	\$120,000 (100 acres @ \$1,200/acre; average 1 acre per filter strip)	<ul style="list-style-type: none"> Identify locations where filter strips are practical 	IDNR NRCS	(Grant submitted 2005)
			<ul style="list-style-type: none"> all areas adjacent to surface waters 		2007
			<ul style="list-style-type: none"> adjacent to livestock operations 		2007
			<ul style="list-style-type: none"> areas not currently enrolled in filter strips) 		2008
			<ul style="list-style-type: none"> Identify willing landowners 	LMREP; IDNR; SWCD; NRCS	2008

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Disseminate Information on filter strips to willing landowners with printed materials and one-on-one contact 	LMREP; IDNR; SWCD; NRCS; FSA	2008
			<ul style="list-style-type: none"> Provide direction to and encourage willing landowners to implement filter strips 	CRP; FSA	2008
B. Improve stream stability in 4 critical stream reaches.	1. Locate projects in a sub watershed identified for erosion reduction with existing fly over information available	N/A	<ul style="list-style-type: none"> Identify and prioritize those knick points where most severe, where infrastructure or crop ground is at risk 	IDNR; SWS (State Water Survey)	2008 (Grant submitted 2005)
	2. Conduct stream stability assessment in Tier 1 prioritized sub watershed	\$10,000 (est.)	<ul style="list-style-type: none"> Submit grant proposal 	SWS; IDNR	2007 (Grant submitted 2005)
	3. Install 5 critical grade control structures in areas with active head cuts	\$50,000 (5 structures @ \$10,000 each)	<ul style="list-style-type: none"> Identify Willing Landowners through one-on-one contact 	LMREP; IDNR	2008

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Research funding sources and submit grant proposals 	LMREP; SWCD; IDNR; IEPA	2008
			<ul style="list-style-type: none"> Conduct necessary survey and design and install practices 	SWS; SSRP; IEPA 319	2009
	4. Focus erosion control in areas of watershed with lakes.	N/A	No further action required	LMREP	Completed
C. Stabilize 1000 feet of eroding stream banks.	1. Locate projects in a sub watershed identified for erosion reduction with existing fly-over information available	N/A	<ul style="list-style-type: none"> No further action required 		Completed
	2. Install stabilization techniques on eroding stream banks.	\$300,000 (1000 feet@ \$300/foot)	<ul style="list-style-type: none"> Identify and prioritize eroding banks where most severe, where infrastructure or crop ground is at risk 	IDNR; SWS (State Water Survey)	2008 (Grant submitted 2005)
			<ul style="list-style-type: none"> Identify Willing Landowners through one-on-one contact 	LMREP; IDNR; SWCD/NRCS	2008

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Research funding sources and submit grant proposals 	LMREP; SWCD; IDNR; IEPA	2008
			<ul style="list-style-type: none"> Conduct necessary survey and design and install practices 	SWS; SSRP; IEPA 319	2009
	3. Install 10 treatment wetlands	\$225,000 (50 acres of wetland @ \$4,500/acre; 5 acres/wetland avg)	<ul style="list-style-type: none"> Identify Willing Landowners through one-on-one contact 	LMREP; IDNR; SWCD/NRCS	2007
			<ul style="list-style-type: none"> Locate treatment wetlands in conjunction with stream stabilization projects whenever possible 		2008
			<ul style="list-style-type: none"> Research funding sources and submit grant proposals 	LMREP; SWCD; IDNR C2000; IEPA; WRP; CREP	2008
			<ul style="list-style-type: none"> Locate where hydric soils exist and install wetlands utilizing available funding programs 	LMREP; SWCD; IDNR C2000; IEPA; WRP; CREP	2008



GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Monitor sediment and nutrients 	IDNR; Major Universities	2010
	4. Partner with Ducks Unlimited and tiling company to create demonstration project.	N/A	<ul style="list-style-type: none"> Identify Willing Landowner 	LMREP; SWCD/NRCS	2009
			<ul style="list-style-type: none"> Contact project partners and initiate project 	DU; F&W Service; Major Universities; Tiling Company; NRCS/SWCD; IEPA	2010
	5. Monitor sediment delivery and nutrients downstream of stabilized stream banks for 3 years	\$50,000 (est.)	<ul style="list-style-type: none"> Install automatic staff gauges 	Major Universities; SWS; IEPA; IDNR	2010
			<ul style="list-style-type: none"> Conduct sediment yield measurements at 3 discharges, an order of magnitude apart 		2010
			<ul style="list-style-type: none"> Complete detailed cross-sections 		2010
			<ul style="list-style-type: none"> Sample nutrients during storm events (N, P, and VOC) 		2010

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
D. Stabilize 100 eroding gullies.	1. Locate projects in a sub watersheds identified for erosion reduction	N/A	No further action required		Completed
	2. Conduct inventory to locate existing gullies and calculate expected load reductions resulting from stabilization	\$10,000 (est.)	<ul style="list-style-type: none"> Submit grant proposal 	IEPA	2008 (Grant submitted 2005)
	3. Prioritize gullies based on current erosion rates and estimated load reductions. Contact eligible landowners.	N/A	<ul style="list-style-type: none"> No further action required 		Completed
	4. Install a combination of 100 grade control structures, grass waterways, WASCBs, treatment wetlands	\$250,000 (200 acres @ \$1,200/acre; average 2 acres per waterway – assuming similar cost for combination of other BMPs)	<ul style="list-style-type: none"> Identify Willing Landowners 	LMREP; SWCD/NRCS	2008
			<ul style="list-style-type: none"> Conduct Farm Planning on Eligible fields 	IDNR; LMREP; TSPs (Technical Service providers)	2009



GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Identify funding sources, submit appropriate grants and link landowners with available programs 	IEPA 319; EQUIP; CRP; CREP; IDNR C2000	2009
	5. Monitor sediment delivery and nutrients downstream of stabilized gullies	\$25,000	<ul style="list-style-type: none"> Install automatic staff gauges 	IEPA 319; IDNR C2000; Major universities	2010
			<ul style="list-style-type: none"> Complete detailed cross-sections and conduct bed and bank particle analysis 		2010
			<ul style="list-style-type: none"> Sample nutrients during storm events (N, P, and VOC) 		2010
			<ul style="list-style-type: none"> Conduct sediment yield measurements at 3 discharges, an order of magnitude apart 		2010

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
E. Educate 1000 landowners about federal and state programs aimed at reducing erosion.	1. Produce special mailings to educate landowners about available programs.	\$3,000 (est. for 2-4 mailings)	<ul style="list-style-type: none"> Target those landowners in areas experiencing greatest rates of erosion 		2008
			<ul style="list-style-type: none"> Research particular information related to available programs and organizations 	NRCS, SWCD, LMREP, IDNR, IEPA	2008
	2. Identify and recognize those utilizing government programs successfully as they relate to erosion control	\$2,000 (est.)	<ul style="list-style-type: none"> Develop a mailing list of those currently enrolled in CRP/CREP (prioritize those with land practices related to erosion control) 	NRCS/SWCD	2008

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Contact state and local organizations to get a mailing list of those individuals involved in erosion control 	NRCS, SWCD, IDNR, Nature Preserves commission, IEPA, Nature Conservancy, Beef Board, Pheasants Forever, Ducks Unlimited, Environmental Education Association, US Fish and Wildlife; Health Department	2008
			<ul style="list-style-type: none"> Invite those individuals to take part in watershed tours and speak to others 	LMREP	2009
			<ul style="list-style-type: none"> Invite those individuals to present at watershed meetings 	LMREP	2010
	3. Develop informational materials, print and electronic, that describe available programs with local contact information.	\$2,500 (est.)	<ul style="list-style-type: none"> Feature those individuals in newsletters or other forms of media/press releases 	NRCS, SWCD, LMREP, IDNR, IEPA	2009



GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	4. Utilize newspaper column to promote available programs.	\$500 (est.) for multiple ads	<ul style="list-style-type: none"> Develop an article describing specific programs, requirements and contact information 	NRCS, SWCD, LMREP, IDNR, IEPA	2008
	5. Prepare for possible expansion of Conservation Security Program to watershed area.	\$1,000	<ul style="list-style-type: none"> Host meetings in each of the 5 counties to prepare landowners for the CSP 	NRCS, SWCD, LMREP, IDNR, IEPA	2007
	6. Host 5 workshops to promote and explain land management programs other than the CSP program that relate to erosion control	\$2500	<ul style="list-style-type: none"> Target willing landowners and those groups and individuals on existing mailing list 	NRCS, SWCD, LMREP, IDNR, IEPA	2008
			<ul style="list-style-type: none"> Promote to developers and businesses 		2008
			<ul style="list-style-type: none"> Promote to the general public, other landowners or those who have expressed interest in helping 		2009
Cost Subtotal		\$1,154,500			

GOAL IV: ENHANCE AWARENESS OF ISSUES RELATING TO ECOSYSTEM MANAGEMENT AND PROTECTION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
A. Plan the development of Interpretive Center within the Watershed.	1. Investigate / visit existing educational facilities for planning purposes.	1000 (travel)	<ul style="list-style-type: none"> Create a list of existing facilities within traveling distance 	IDNR; Environmental Education Association of Illinois; Illinoissee.org; West Central EEI resource guide; EEAI Board of Directors; Two Rivers Girl scouts; State Board of Education; IDNR; U of I Extension	2007
			<ul style="list-style-type: none"> Travel to existing facilities 		2007
	2. Identify and inventory existing groups and educational facilities within watershed to determine potential for partnership.	N/A	<ul style="list-style-type: none"> Facilitate the development of a group of partners that can leverage various funding sources for construction of a center 	IDNR; Environmental Education Association of Illinois; Illinoissee.org; West Central EEI resource guide; EEAI Board of Directors; Two Rivers Girl scouts; State Board of Education; IDNR; U of I Extension	2008

GOAL IV: ENHANCE AWARENESS OF ISSUES RELATING TO ECOSYSTEM MANAGEMENT AND PROTECTION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
B. Conduct 5 watershed tours highlighting ecosystem management and protection.	1. Identify and inventory landowners exercising best practices worthy of promotion.	\$4,500	<ul style="list-style-type: none"> Utilize list created from previous 		2006, ongoing
C. Enhance and facilitate environmental education content in 10 classrooms or student field trips.	1. Secure funding for supplemental environmental education material and equipment.	\$5000 (est.)	<ul style="list-style-type: none"> Utilize Teacher survey completed by U of I and LMREP for list of materials 		2006, ongoing
			<ul style="list-style-type: none"> Create list of education facilities and work with them to determine needs 		2006
			<ul style="list-style-type: none"> Apply for applicable grants and secure funding 	IEPA, Bureau of water; IDNR; Lake Management association; LEAP grant	2006, ongoing
			<ul style="list-style-type: none"> Communicate with educators funding to link with materials and speakers for the classroom and on field trips 		2006, ongoing

GOAL IV: ENHANCE AWARENESS OF ISSUES RELATING TO ECOSYSTEM MANAGEMENT AND PROTECTION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	2. Disseminate curricula appropriate for target grade level(s).		<ul style="list-style-type: none"> Identify 10 classroom opportunities or field trips and make personal contact. 	LMREP; Lake Management association; Two Rivers Girl scouts; Schuyler SWCD; U of I Extension; Illinois.org	2007, ongoing
D. Facilitate 5 professional development workshops for educators.	1. Secure funding for teachers to attend workshops or bring in other educators/presenters		<ul style="list-style-type: none"> Apply for applicable grants and secure funding 	IEPA, Bureau of water; IDNR; Lake Management association; LEAP grant	2006, ongoing
			<ul style="list-style-type: none"> Use grant funds to send teachers to conferences and workshops 		2006, ongoing
	2. Distribute workshop educational materials at workshops		<ul style="list-style-type: none"> Once funding is secured, develop selection criteria/system for distributing grant funds 		2006, ongoing
	3. Identify presenters that can speak at PD workshops within the watershed		<ul style="list-style-type: none"> Identify location and times of upcoming workshops and link presenters 	Leopold Education Project	2006, ongoing



GOAL IV: ENHANCE AWARENESS OF ISSUES RELATING TO ECOSYSTEM MANAGEMENT AND PROTECTION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
E. Coordinate annual River Cleanup Day.	1. Partner with other groups – schools, service clubs, and civic organizations.	\$500 (for one year)		C. Predrecke; River sweep; Illinois River Day; IEPA	2006, ongoing
F. Provide a monthly environmental education column for print media within the partnership.	1. Consult with various editors regarding length and other variables that might effect publication.	N/A			2006, ongoing
	2. Identify potential authors and existing columns that might be reprinted under LMREP banner.	N/A			2006, ongoing
Cost Subtotal		\$11,000			

GOAL V: PROMOTE THE USE OF LAND AND WATER RESOURCES FOR TOURISM AND RECREATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN

GOAL V: PROMOTE THE USE OF LAND AND WATER RESOURCES FOR TOURISM AND RECREATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
A. Facilitate the development of 3 access points to the La Moine River.	1. Identify all appropriate possibilities for access points.	N/A	<ul style="list-style-type: none"> • Inventory parks and road heads along the river's course. • Work to establish the La Moine River as a public waterway. • Petition IDNR 	IDNR; Marty Fischer	2006
	2. Design 2-hour canoe trip for promotion.	\$500 (est.)	<ul style="list-style-type: none"> • Locate 6-10 miles of unobstructed river with haul-in / haul-out points. 	Dana Walker; Sen. John Sullivan; IDOT	2008
	3. Secure access at Hwy 336 crossings.		<ul style="list-style-type: none"> • Secs. 27, 28, 34 in Hancock Township 		2008
B. Develop partnerships with 5 organizations with a mission and/or potential impact on developing land and water resources for recreational use.	1. Identify and inventory organizations with complementary missions and/or potential impact on development for recreational use.	N/A	<ul style="list-style-type: none"> • Present Goals & Objectives to each identified partner. 	WINTAG; IDNR; Macomb Park District	2006

GOAL V: PROMOTE THE USE OF LAND AND WATER RESOURCES FOR TOURISM AND RECREATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
C. Educate residents of 4 population centers about recreational opportunities within the watershed.	1. Create conservation and education programs to community, service and governmental groups.	N/A	<ul style="list-style-type: none"> Focus on Carthage, Mt. Sterling, Rushville and Macomb. 		2006, ongoing
			<ul style="list-style-type: none"> Present the program(s) to the various groups. 		2006, ongoing
			<ul style="list-style-type: none"> Add to website. 		2006
	2. Utilize newspaper column to promote recreational opportunities.	\$500 (est. for multiple ads)	<ul style="list-style-type: none"> Solicit articles from members and professionals 		2006, ongoing
D. Work with area tourism bureaus to inform 5,000 potential tourists about recreational opportunities within watershed.	1. Identify and inventory recreational opportunities within watershed, in as much detail as possible.	N/A	<ul style="list-style-type: none"> Present inventory to Tourism entities and Chambers of Commerce. 	Western Illinois Tourism Development Office	2007
			<ul style="list-style-type: none"> Add to website 		2007
			<ul style="list-style-type: none"> Make data accessible at various retailers (e.g., Farm King, fishing shops) 		2007

GOAL V: PROMOTE THE USE OF LAND AND WATER RESOURCES FOR TOURISM AND RECREATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Place signs along the river road to promote access points 		2008
	2. Develop series of local eco-trips for potential tourists.				2009
	3. Support existing tours focused on bird watching, fishing, hiking, biking, hunting and camping.	N/A	<ul style="list-style-type: none"> Promote through presentations at community groups and organizations 		2007
E. Identify 5 business opportunities complementary to Partnership Goals (agri-tourism, eco-tourism and/or recreation) and work with Entrepreneurship Center to recruit and establish.	1. Contact other Partnerships or similar groups to assess business development that has occurred.	N/A	<ul style="list-style-type: none"> Create list of similar or like-minded organizations 	Western Illinois Entrepreneurship Center; DCEO	2007
	2. Support community riverfront development efforts throughout the watershed.	N/A	<ul style="list-style-type: none"> Focus on communities which are on the river: Ripley (Brown); Browning, Frederick, & Brooklyn (Schuyler); Macomb (McDonough) 		2007, ongoing

GOAL V: PROMOTE THE USE OF LAND AND WATER RESOURCES FOR TOURISM AND RECREATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
			<ul style="list-style-type: none"> Attend group meetings. 		2007, ongoing
	3. Support tours focused on bird watching, fishing, hiking, biking, hunting and camping.	N/A	<ul style="list-style-type: none"> Visit businesses to encourage supporting eco-tourism to increase profits 		2007
	4. Increase businesses that serve the recreation and tourism business, including lodging, meals and entertainment.	N/A	<ul style="list-style-type: none"> Discuss opportunities with each business 	Area outfitters; Two Rivers RC&D	2008
	5. Support sustainable and smart economic development and the diversification of economic opportunities.	N / A	<ul style="list-style-type: none"> Talk to formal and informal business groups 		2008
F. Work with appropriate officials to identify and expand recreational opportunities within 5 publicly owned lands.	1. Develop greenway and trail projects for bikes and horseback riding.	N/A	<ul style="list-style-type: none"> Spring Lake Argyle Weinberg-King Scripps Company 	WINTAG; IDNR; Macomb Park District; Mt. Sterling Park District	2007
			<ul style="list-style-type: none"> Research other efforts 		2007
			<ul style="list-style-type: none"> Research funding sources 		2007

GOAL V: PROMOTE THE USE OF LAND AND WATER RESOURCES FOR TOURISM AND RECREATION.					
OBJECTIVES	STRATEGIES	COST	ACTION ITEMS	RESOURCES	BY WHEN
	2. Develop wildlife viewing areas.	\$50,000 (est. based on similar project in another area – cost will vary)	<ul style="list-style-type: none"> Identify and list possible sites 		2008
			<ul style="list-style-type: none"> Research other efforts 		2008
			<ul style="list-style-type: none"> Research funding sources 		2008
	3. Inventory, identify and prioritize areas most appropriate and interested in such expansion.	N/A			2007
Cost Subtotal		\$51,000			



LA MOINE RIVER MANAGEMENT PLAN – ESTIMATED COSTS

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES AND BIODIVERSITY WITHIN THE ECOSYSTEM.

OBJECTIVES	COST
Develop informational materials, print and electronic, that describe available programs with local contact information.	\$2,500 (est.)
Establish at least 1000 acres of prairie habitat	\$1,500,000 (1000ac @ \$1500/ac)
Establish at least 5000 acres of forested habitat:) 2500 acres upland forest b) 2500 acres bottomland forest	\$5,000,000 (5000ac @ \$1000/acre)
Establish at least 1000 acres of wetland habitat	\$3,000,000 (1000 acres @ \$3000/acre; could vary – conservative estimate)
Host workshop to promote and explain land management programs related to easements	\$500
Update IDNR booklet (1994) that lists financial and technical programs	\$2,500 (est.)
Host 5 workshops to promote and explain land management programs.	\$2500
Restore at least 10,000 acres of degraded wildlife habitat.	\$2,500 (est.)
Disseminate informational materials, print and electronic, that describe available programs with local contact information.	\$20,000
Identify location and type of appropriate BMP for restoration activity; utilize and implement the following amount of BMPs: a) at least 2,900 acres of riparian buffer strips	\$3,480,000 (2,900 acres @ 1,200/acre)
b) at least 500 acres (or 5% of existing wetland acreage) wetland restoration	\$1,250,00 (500 acres @ 2,500/acre; avg.; will vary based on site condition)



OBJECTIVES	COST
c) at least 3,500 acres forest restoration/TSI (combined upland/bottomland forest)	\$3,500,00 (3,500 acres @ 1,000/acre)
d) at least 3,000 acres grassland habitat	\$3,000,000 (3,000 acres @ 1,000/acre)
e) at least 100 acres urban green space (rain gardens)	\$100,000 (100 acres @ 1,000/acre)
Host workshop to promote and explain land management programs for the above strategies/BMPs	\$500
COST SUBTOTAL	\$20,861,000

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.

OBJECTIVES	COST
Complete 100 nutrient management plans, including applicable incentive payments	\$200,000 (100 plans @ 2,000/plan; excludes cost for incentive payments)
Install 500 acres of riparian buffer strips a) 250 acres grassland b) 250 acres bottomland forest	\$600,000 (500 acres @ 1,200/acre)
Install 100 grassed waterways	\$240,000 (200 acres @ 1,200/acre; Average 2 acres per waterway)
Identify and inventory channelized stream segments most appropriate for improvement.	\$5,000
Increase in-stream habitat in channelized streams. a) Re-meander 1 stream b) Re-connect 1 channelized stream segment to original floodplain	Cost estimate not available
Install 10 treatment wetlands adjacent to or upstream of an impaired stream or within a prioritized sub watershed	\$450,000 (100 acres @ \$4,500/acre; assumes average 10 acre wetlands)

OBJECTIVES	COST
Acquire informational materials, print and electronic, that describe available programs with local contact information.	\$2,500 (est.)
Host 5 workshop to promote and explain land management programs available for groundwater and surface water protection	\$2500
Field verify existing buffers and inadequate buffers in prioritized sub watersheds	\$3000
Conduct inventory of existing hog/cattle operations in the watershed	\$6,000
Encourage 5 livestock waste management facilities	\$50,000 (5 facilities @ 10,000/facility; conservative estimate - cost will vary)
Install 10,000 feet of livestock fencing adjacent to streams	\$22,000 (10,000ft @ 2.20/ft)
Install 5 clean water diversions around existing operations	\$27,500 (5 operations @ 5,500/operation; cost will vary – estimate based on 1 acre facilities with approx. 200 animal units)
Acquire informational materials, print and electronic, that describe available programs with local contact information.	\$2,500 (est.)
Host 2 workshops to promote and explain land management programs related to livestock management	\$1000
COST SUBTOTAL	\$1,612,000

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.

OBJECTIVES	COST
Field verify erosion prediction model and verify the location of fields with conventional tillage occurring	\$3,000

OBJECTIVES	COST
Provide incentive payments for no till or conservation till on 10,000 acres of B slopes or greater.	\$100,000 (10,000 acres @ \$10/acre; per acre cost could vary)
Install 100 filter strips	\$120,000 (100 acres @ 1,200/acre; average 1 acre per filter strip)
Conduct stream stability assessment in Tier 1 prioritized sub watershed	\$10,000 (est.)
Install 5 critical grade control structures in areas with active head cuts	\$50,000 (5 structures @ 10,000/structure)
Install stabilization techniques on eroding stream banks.	\$300,000 (1000 feet@ 300/foot)
Install 10 treatment wetlands	\$225,000 (50 acres of wetland @ 4,500/acre; avg. 5 acres/wetland)
Monitor sediment delivery and nutrients downstream of stabilized stream banks for 3 years	\$50,000 (est.)
Conduct inventory to locate existing gullies and calculate expected load reductions resulting from stabilization	\$10,000 (est.)
Install a combination of 100 grade control structures, grass waterways, WASCBs, treatment wetlands	\$250,000 (200 acres @ 1,200/acre; average 2 acres per waterway – assuming similar cost for combination of other BMPs)
Monitor sediment delivery and nutrients downstream of stabilized gullies	\$25,000
Produce special mailings to educate landowners about available programs.	\$3,000 (est.) for 2-4 mailings
Identify and recognize those utilizing government programs successfully as they relate to erosion control	\$2,000 (est.)
Develop informational materials, print and electronic, that describe available programs with local contact information.	\$2,500 (est.)



OBJECTIVES	COST
Utilize newspaper column to promote available programs.	\$500 (est.) for multiple ads
Prepare for possible expansion of Conservation Security Program to watershed area.	\$1,000
Host 5 workshops to promote and explain land management programs other than the CSP program that relate to erosion control	\$2500
COST SUBTOTAL	\$1,154,500

GOAL IV: ENHANCE AWARENESS OF ISSUES RELATING TO ECOSYSTEM MANAGEMENT AND PROTECTION.

OBJECTIVES	COST
Investigate / visit existing educational facilities for planning purposes.	\$1000
Identify and inventory landowners exercising best practices worthy of promotion (through tours).	\$4,500
Secure funding for supplemental environmental education material and equipment.	\$5000 (est.)
Coordinate annual River Cleanup Day - Partner with other groups – schools, service clubs, and civic organizations.	\$500 for one year
COST SUBTOTAL	\$11,000

GOAL V: PROMOTE THE USE OF LAND AND WATER RESOURCES FOR TOURISM AND RECREATION.

OBJECTIVES	COST
Design 2-hour canoe trip for promotion.	\$500 (est.)
Utilize newspaper column to promote recreational opportunities.	\$500 (est.) for multiple ads



OBJECTIVES	COST
Develop wildlife viewing areas.	\$50,000 (estimate – based on similar project in another area – cost will vary)
COST SUBTOTAL	\$51,000

ESTIMATED COST SUMMARY	
GOAL I	\$20,861,000
GOAL II	\$1,612,000
GOAL III	\$1,154,500
GOAL IV	\$11,000
GOAL V	\$51,000
TOTAL – ALL GOALS	\$23,689,500

LA MOINE RIVER MANAGEMENT PLAN – TIMELINE / PRIORITIES

The following pages contain a reordering of the objectives and strategies identified in the Management Plan, organized chronologically to allow focus on priorities, year by year. Each section may contain Objectives / Strategies / Action Items for each of the five Goals.

YEAR ONE – 2006

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.

A. Increase by at least 7,000 acres the amount of wildlife habitat and nature communities protected through conservation easements.

2. Target conservation easements in priority 'protection' sub watersheds
 - Review list of inventory areas most needing protection identified by IDNR
4. Utilize CREP, C2000, IEPA 319, and other forms of grant programs
 - Research and develop a comprehensive database of available grant programs, deadlines, contact information, requirements etc.

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.

A. Reduce Sheet and Rill Erosion entering streams by 10% on eroding ground.

2. Field verify erosion prediction model and verify the location of fields with conventional tillage occurring
 - Identify soils with less than 2% slopes
 - Verify those operators still utilizing conventional tillage
5. Provide incentive payments for no till or conservation till on 10,000 acres of B slopes or greater.
 - Partner with FSA to identify conventional tillage on B slopes or greater

GOAL IV: ENHANCE AWARENESS OF ISSUES RELATING TO ECOSYSTEM MANAGEMENT AND PROTECTION.

B. Conduct 5 watershed tours highlighting ecosystem management and protection.

1. Identify and inventory landowners exercising best practices worthy of promotion.
 - Utilize list created from previous

C. Enhance and facilitate environmental education content in 10 classrooms or student field trips.

1. Secure funding for supplemental environmental education material and equipment.
 - Utilize Teacher survey completed by U of I and LMREP for list of materials

- Create list of education facilities and work with them to determine needs
- Apply for applicable grants and secure funding
- Communicate with educators funding to link with materials and speakers for the classroom and on field trips

D. Facilitate 5 professional development workshops for educators.

1. Secure funding for teachers to attend workshops or bring in other educators/presenters

- Apply for applicable grants and secure funding
- Use grant funds to send teachers to conferences and workshops

2. Distribute workshop educational materials at workshops

- Once funding is secured, develop selection criteria/system for distributing grant funds

3. Identify presenters that can speak at PD workshops within the watershed

- Identify location and times of upcoming workshops and link presenters

E. Coordinate annual River Cleanup Day.

1. Partner with other groups – schools, service clubs, and civic organizations.

F. Provide a monthly environmental education column for print media within the partnership.

1. Consult with various editors regarding length and other variables that might effect publication.

2. Identify potential authors and existing columns that might be reprinted under LMREP banner.

GOAL V: PROMOTE THE USE OF LAND AND WATER RESOURCES FOR TOURISM AND RECREATION.

A. Facilitate the development of 3 access points to the La Moine River.

1. Identify all appropriate possibilities for access points.

- Inventory parks and road heads along the river's course.
- Work to establish the La Moine River as a public waterway.
- Petition IDNR

B. Develop partnerships with 5 organizations with a mission and/or potential impact on developing land and water resources for recreational use.

1. Identify and inventory organizations with complementary missions and/or potential impact on development for recreational use.

- Present Goals & Objectives to each identified partner.

C. Educate residents of 4 population centers about recreational opportunities within the watershed.

1. Create conservation and education programs to community, service and governmental groups.

- Focus on Carthage, Mt. Sterling, Rushville and Macomb.
 - Present the program(s) to the various groups.
 - Add to website.
2. Utilize newspaper column to promote recreational opportunities.
- Solicit articles from members and professionals

YEAR TWO – 2007

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.

A. Increase by at least 7,000 acres the amount of wildlife habitat and nature communities protected through conservation easements.

1. Develop informational materials, print and electronic, that describe available programs with local contact information.
 - Research / compile available materials and resource needs
 - Research funding sources
 - Print and distribute new information
2. Target conservation easements in priority 'protection' sub watersheds
 - Contact landowners within priority areas
3. Direct land protection efforts to connect fragmented habitat
 - Prioritize grant applications that connect fragmented habitat & apply for grants
4. Utilize CREP, C2000, IEPA 319, and other forms of grant programs
 - Contact self-identified interested landowners to promote enrollment in programs
5. Establish at least 1000 acres of prairie habitat
 - Contact landowners
 - a) 2500 acres upland forest
 - Contact landowners
 - b) 2500 acres bottomland forest
 - Contact landowners
7. Establish at least 1000 acres of wetland habitat
 - Contact landowners
10. Keep track of all land protection
 - Obtain information from other agencies involved in land protection
 - Develop GIS database of land protected within partnership area
 - Update database on regular basis

C. Educate 20% of stakeholders about the restoration, preservation and best management practices of biodiversity through at least five media.

1. Identify and recognize those exercising good management practices related to restoration, preservation and best management practices.
 - Develop a mailing list of those currently enrolled in CRP/CREP (prioritize those with land protection practices in place)
2. Update IDNR booklet (1994) that lists financial and technical programs
 - Consult with agencies for updated information to revise booklet

4. Work with nurseries and landscapers to stop selling non-native species.
 - Work with Ben Dolbeare at IDNR Natural Heritage
- E. Restore at least 10,000 acres of wildlife habitat.
3. Provide outreach activities; secure funding to do this.
 - Conduct additional outreach activities to identify 'willing' landowners.

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.

A. Reduce the number of IEPA impaired streams by one (1) and/or increase one (1) CTAP* stream by at least one step (poor to fair; fair to good; good to excellent). * *Critical Trends Assessment Program*

2. Complete 100 nutrient management plans, including applicable incentive payments
 - Identify those landowners who have already expressed an interest where nutrient management planning has not been completed and soils tests are available
 3. Install 500 acres of riparian buffer strips
 - a) 250 acres grassland
 - b) 250 acres bottomland forest
 - Identify those landowners who have already expressed an interest.
 - Identify and secure alternative funding sources
 4. Install 100 grassed waterways
 - Identify those landowners who have already expressed an interest.
 - Identify and secure alternative funding sources
 7. Install 10 treatment wetlands adjacent to or upstream of an impaired stream or within a prioritized sub watershed
 - Identify those landowners within areas eligible for these types of practices who have already expressed an interest.
- B. Educate stakeholders about surface and groundwater resources through at least five media.
1. Identify and recognize those exercising good management practices related to maintaining or improving water resources.
 - Develop a mailing list of those currently enrolled in CRP/CREP (prioritize those with land practices related to water quality)
- C. Increase total stream feet buffered in headwaters area by 10%.
3. Utilize existing BMPs
 - a) Grassland riparian buffer
 - b) Forested riparian buffers
 - Identify those landowners who have already expressed an interest.

E. Encourage ten landowners along 1st, 2nd order streams to participate in livestock management programs.

1. Conduct inventory of existing hog/cattle operations in the watershed
 - Grant submitted to IEPA 2005
3. Target producers with 20-50 animal units with proximity to water resource; 1st and 2nd order streams receive priority
7. Acquire informational materials, print and electronic, that describe available programs with local contact information.
 - Research particular information related to available programs and organizations
 - Contact partnering organizations
8. Host 2 workshops to promote and explain land management programs related to livestock management
 - Target willing landowners and those groups and individuals on existing mailing list
 - Promote to the general public, other landowners or those who have expressed interest in helping

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.

A. Reduce Sheet and Rill Erosion entering streams by 10% on eroding ground.

4. Focus any soil erosion funding on those who have already expressed interest.
 - Utilize local signup list at county NRCS/SWCD offices
 - Utilize LMREP willing landowner list
5. Provide incentive payments for no till or conservation till on 10,000 acres of B slopes or greater.
 - Research other efforts
 - Research funding sources
6. Install 100 filter strips
 - Identify locations where filter strips are practical: all areas adjacent to surface waters
 - Identify locations where filter strips are practical: adjacent to livestock operations

B. Improve stream stability in 4 critical stream reaches.

2. Conduct stream stability assessment in Tier 1 prioritized sub watershed
 - Submit grant proposal

C. Stabilize 1000 feet of eroding stream banks.

3. Install 10 treatment wetlands
 - Identify Willing Landowners through one-on-one contact

- E. Educate 1000 landowners about federal and state programs aimed at reducing erosion.
5. Prepare for possible expansion of Conservation Security Program to watershed area.
 - Host meetings in each of the 5 counties to prepare landowners for the CSP

GOAL IV: ENHANCE AWARENESS OF ISSUES RELATING TO ECOSYSTEM MANAGEMENT AND PROTECTION.

- A. Plan the development of Interpretive Center within the Watershed.
1. Investigate / visit existing educational facilities for planning purposes.
 - Create a list of existing facilities within driving distance
 - Travel to existing facilities
- C. Enhance and facilitate environmental education content in 10 classrooms or student field trips.
2. Disseminate curricula appropriate for target grade level(s).
 - Identify 10 classroom opportunities or field trips and make personal contact.

GOAL V: PROMOTE THE USE OF LAND AND WATER RESOURCES FOR TOURISM AND RECREATION.

- D. Work with area tourism bureaus to inform 5,000 potential tourists about recreational opportunities within watershed.
1. Identify and inventory recreational opportunities within watershed, in as much detail as possible.
 - Present inventory to Tourism entities and Chambers of Commerce.
 - Add to website
 - Make data accessible at various retailers (e.g., Farm King, fishing shops)
 3. Support existing tours focused on bird watching, fishing, hiking, biking, hunting and camping.
 - Promote through presentations at community groups and organizations
- E. Identify 5 business opportunities complementary to Partnership Goals (agri-tourism, eco-tourism and/or recreation) and work with Entrepreneurship Center to recruit and establish.
1. Contact other Partnerships or similar groups to assess business development that has occurred.
 - Create list of similar or like-minded organizations.
 2. Support community riverfront development efforts throughout the watershed.
 - Focus on communities which are on the river: Ripley (Brown); Browning, Frederick, & Brooklyn (Schuyler); Macomb (McDonough)
 - Attend group meetings.
 3. Support tours focused on bird watching, fishing, hiking, biking, hunting and camping.
 - Visit businesses to encourage supporting eco-tourism to increase profits

F. Work with appropriate officials to identify and expand recreational opportunities within 5 publicly owned lands.

1. Develop greenway and trail projects for bikes and horseback riding.

- Spring Lake
- Argyle
- Weinberg-King
- Scripps Company
- Research other efforts
- Research funding sources

3. Inventory, identify and prioritize areas most appropriate and interested in such expansion.

YEAR THREE – 2008

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.

A. Increase by at least 7,000 acres the amount of wildlife habitat and nature communities protected through conservation easements.

3. Direct land protection efforts to connect fragmented habitat

- Develop scoring criteria for prioritizing land protection activities/grants

8. Establish link between existing forests in watershed.

- Identify priority links
- Use incentive programs, easements, acquisitions to establish links

9. Host workshop to promote and explain land management programs related to easements

- Plan, organize, advertise and implement workshop

C. Educate 20% of stakeholders about the restoration, preservation and best management practices of biodiversity through at least five media.

1. Identify and recognize those exercising good management practices related to restoration, preservation and best management practices.

- Contact state and local organizations for mailing list of individuals involved in preservation and best management of natural resources
- Identify potential showcase sites
- Invite those individuals to take part in watershed tours and speak to others
- Invite those individuals to present at watershed meetings
- Feature those individuals in newsletters or other forms of media / press releases
- Hold workshop to showcase willing landowners' successes
- Develop annual award to recognize outstanding conservation landowner

2. Update IDNR booklet (1994) that lists financial and technical programs

- Apply for grant to update Landowner Conservation Incentives book
- Distribute booklets to agencies, landowners, and so on

3. Conduct outreach to educate landowners to identify and remove invasive species.

- As part of LMREP workshop, have expert speak on invasive species control issues
- Develop list of resources available to landowners on exotic species control issues and make available

5. Host 5 workshops to promote and explain land management programs.

- Develop Workshop itinerary

- Contact willing landowners and those groups and individuals on existing mailing lists, invite to workshop
- Promote to the general public, other landowners or those who have expressed interest in helping

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.

A. Reduce the number of IEPA impaired streams by one (1) and/or increase one (1) CTAP* stream by at least one step (poor to fair; fair to good; good to excellent). * *Critical Trends Assessment Program*

3. Install 500 acres of riparian buffer strips

a) 250 acres grassland

b) 250 acres bottomland forest

- Identify and contact additional landowners within areas eligible for these types of practices

4. Install 100 grassed waterways

- Identify and contact additional landowners within areas eligible for these types of practices

5. Identify and inventory channelized stream segments most appropriate for improvement.

- Secure funding to conduct inventory in priority watersheds

7. Install 10 treatment wetlands adjacent to or upstream of an impaired stream or within a prioritized sub watershed

- Identify and secure alternative funding sources

B. Educate stakeholders about surface and groundwater resources through at least five media.

1. Identify and recognize those exercising good management practices related to maintaining or improving water resources.

- Contact state and local organizations to get a mailing list of those individuals involved in water quality improvement
- Invite those individuals to take part in watershed tours and speak to others
- Invite those individuals to present at watershed meetings
- Feature those individuals in newsletters or other forms of media/press releases

2. Support and expand storm drain stenciling programs within the watershed area.

- Contact municipalities (Macomb, Carthage, Rushville) in the watershed
- Contact Prairie Rivers network
- Select 2-3 willing communities and host events

3. Acquire informational materials, print and electronic, that describe available programs with local contact information.
 - Research particular information related to available programs and organizations
 - Contact partnering organizations
 4. Identify recharge areas or areas of critical groundwater resources and inform governmental units.
 - Utilize existing information available from IEPA and IDNR to identify specific areas
 - Inform local governments
 5. Host 5 workshops to promote and explain land management programs available for groundwater and surface water protection
 - Target willing landowners and those groups and individuals on existing mailing list
 - Promote to the general public, other landowners or those who have expressed interest in helping
- C. Increase total stream feet buffered in headwaters area by 10%.
1. Field verify existing buffers and inadequate buffers in prioritized sub watersheds
 - Grant proposal submitted to IEPA
 2. Enlist 1-2 landowners in headwater area to participate in demonstration project.
 - Research and identify new technologies and systems aimed at improving water quality.
 3. Utilize existing BMPs: a) Grassland riparian buffer; b) Forested riparian buffers
 - Identify and contact additional landowners within areas eligible for these types of practices
 - Identify and secure alternative funding sources
- E. Encourage ten landowners along 1st, 2nd order streams to participate in livestock management programs.
2. Identify and recognize those utilizing livestock management programs successfully.
 - Contact state and local organizations to get a mailing list of those individuals involved in progressive livestock management
 - Identify potential showcase sites
 - Invite those individuals to take part in watershed tours and speak to others
 - Invite those individuals to present at watershed meetings
 - Feature those individuals in newsletters or other forms of media/press releases
 - Hold workshop to showcase willing landowners' successes
 - Develop annual award to recognize outstanding livestock management

4. Encourage 5 livestock waste management facilities Utilize results from survey; identify and prioritize operations based on proximity to surface water, and density
 - Research and identify appropriate funding sources
5. Install 10,000 feet of livestock fencing adjacent to streams
 - Utilize results from survey; identify and prioritize operations based on proximity to surface water, and density
 - Research and identify appropriate funding sources
6. Install 5 clean water diversions around existing operations
 - Utilize results from survey; identify and prioritize operations based on proximity to surface water, and density
 - Research and identify appropriate funding sources

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.

A. Reduce Sheet and Rill Erosion entering streams by 10% on eroding ground.

3. Create demonstration projects to educate landowners and other appropriate stakeholders.
 - Research and identify new technologies and systems aimed at reducing sheet and rill erosion.
5. Provide incentive payments for no till or conservation till on 10,000 acres of B slopes or greater.
 - Secure Funding
6. Install 100 filter strips
 - Identify locations where filter strips are practical: areas not currently enrolled in filter strips
 - Identify willing landowners
 - Disseminate Information on filter strips to willing landowners with printed materials and one-on-one contact
 - Provide direction to and Encourage willing landowners to implement filter strips

B. Improve stream stability in 4 critical stream reaches.

1. Locate projects in a sub watershed identified for erosion reduction with existing fly over information available
 - Identify and prioritize those knick points where most severe, where infrastructure or crop ground is at risk
3. Install 5 critical grade control structures in areas with active head cuts
 - Identify Willing Landowners through one-on-one contact
 - Research funding sources and submit grant proposals

C. Stabilize 1000 feet of eroding stream banks.

2. Install stabilization techniques on eroding stream banks.

- Identify and prioritize eroding banks where most severe, where infrastructure or crop ground is at risk
- Identify Willing Landowners through one-on-one contact
- Research funding sources and submit grant proposals

3. Install 10 treatment wetlands

- Locate treatment wetlands in conjunction with stream stabilization projects whenever possible
- Research funding sources and submit grant proposals
- Locate where hydric soils exist and install wetlands utilizing available funding programs

D. Stabilize 100 eroding gullies.

2. Conduct inventory to locate existing gullies and calculate expected load reductions resulting from stabilization

- Submit grant proposal

4. Install a combination of 100 grade control structures, grass waterways, WASCBs, treatment wetlands

- Identify Willing Landowners

E. Educate 1000 landowners about federal and state programs aimed at reducing erosion.

1. Produce special mailings to educate landowners about available programs.

- Target those landowners in areas experiencing greatest rates of erosion
- Research particular information related to available programs and organizations

2. Identify and recognize those utilizing government programs successfully as they relate to erosion control

- Develop a mailing list of those currently enrolled in CRP/CREP (prioritize those with land practices related to erosion control)
- Contact state and local organizations to get a mailing list of those individuals involved in erosion control

4. Utilize newspaper column to promote available programs.

- Develop an article describing specific programs, requirements and contact information

6. Host 5 workshops to promote and explain land management programs other than the CSP program that relate to erosion control

- Target willing landowners and those groups and individuals on existing mailing list
- Promote to developers and businesses

GOAL IV: ENHANCE AWARENESS OF ISSUES RELATING TO ECOSYSTEM MANAGEMENT AND PROTECTION.

A. Plan the development of Interpretive Center within the Watershed.

2. Identify and inventory existing groups and educational facilities within watershed to determine potential for partnership.
 - Facilitate the development of a group of partners that can leverage various funding sources for construction of a center

GOAL V: PROMOTE THE USE OF LAND AND WATER RESOURCES FOR TOURISM AND RECREATION.

A. Facilitate the development of 3 access points to the La Moine River.

2. Design 2-hour canoe trip for promotion.
 - Locate 6-10 miles of unobstructed river with haul-in / haul-out points.
3. Secure access at Hwy 336 crossings.
 - Secs. 27, 28, 34 in Hancock Township

D. Work with area tourism bureaus to inform 5,000 potential tourists about recreational opportunities within watershed.

1. Identify and inventory recreational opportunities within watershed, in as much detail as possible.
 - Place signs along the river road to promote access points

E. Identify 5 business opportunities complementary to Partnership Goals (agri-tourism, eco-tourism and/or recreation) and work with Entrepreneurship Center to recruit and establish.

4. Increase businesses that serve the recreation and tourism business, including lodging, meals and entertainment.
 - Discuss opportunities with each business
5. Support sustainable and smart economic development and the diversification of economic opportunities.
 - Talk to formal and informal business groups

F. Work with appropriate officials to identify and expand recreational opportunities within 5 publicly owned lands.

2. Develop wildlife viewing areas.
 - Identify and list possible sites
 - Research other efforts
 - Research funding sources

YEAR FOUR – 2009

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.

E. Restore at least 10,000 acres of wildlife habitat.

5. Host workshop to promote and explain land management programs for strategies / BMPs

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.

A. Reduce the number of IEPA impaired streams by one (1) and/or increase one (1) CTAP* stream by at least one step (poor to fair; fair to good; good to excellent). * *Critical Trends Assessment Program*

2. Complete 100 nutrient management plans, including applicable incentive payments
 - Secure funding, contact landowners and conduct nutrient management planning
6. Increase in-stream habitat in channelized streams. a) Re-meander 1 stream; b) Re-connect 1 channelized stream segment to original floodplain
 - Utilize inventory results to prioritize locations, determine feasibility, research and secure funding

C. Increase total stream feet buffered in headwaters area by 10%.

2. Enlist 1-2 landowners in headwater area to participate in demonstration project.
 - Link willing landowners with demonstration project

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.

A. Reduce Sheet and Rill Erosion entering streams by 10% on eroding ground.

3. Create demonstration projects to educate landowners and other appropriate stakeholders.
 - Link willing landowners with demonstration project

B. Improve stream stability in 4 critical stream reaches.

3. Install 5 critical grade control structures in areas with active head cuts
 - Conduct necessary survey and design and install practices

C. Stabilize 1000 feet of eroding stream banks.

2. Install stabilization techniques on eroding stream banks.
 - Conduct necessary survey and design and install practices
4. Partner with Ducks Unlimited and tiling company to create demonstration project.
 - Identify Willing Landowner

D. Stabilize 100 eroding gullies.

4. Install a combination of 100 grade control structures, grass waterways, WASCBs, treatment wetlands

- Conduct Farm Planning on eligible fields
- Identify funding sources, submit appropriate grants and link landowners with available programs

E. Educate 1000 landowners about federal and state programs aimed at reducing erosion.

2. Identify and recognize those utilizing government programs successfully as they relate to erosion control

- Invite those individuals to take part in watershed tours and speak to others

3. Develop informational materials, print and electronic, that describe available programs with local contact information.

- Feature those individuals in newsletters or other forms of media/press releases

6. Host 5 workshops to promote and explain land management programs other than the CSP program that relate to erosion control

- Promote to the general public, other landowners or those who have expressed interest in helping

GOAL V: PROMOTE THE USE OF LAND AND WATER RESOURCES FOR TOURISM AND RECREATION.

D. Work with area tourism bureaus to inform 5,000 potential tourists about recreational opportunities within watershed.

2. Develop series of local eco-trips for potential tourists.

YEAR FIVE – 2010

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.

D. Improve five INAI* sites. * *Illinois Natural Areas Inventory*

2. Promote use of the following management activities on top 5 prioritized sites:
Prescribed Fire; Exotic Species Removal; Other as deemed necessary

- Host land management workshop to train potential volunteers

E. Restore at least 10,000 acres of wildlife habitat.

1. Disseminate informational materials, print and electronic, that describe available programs with local contact information.

- Compile existing information
- Develop new materials, outreach as needed

2. Promote restoration activities in priority “restoration” watersheds first

- Contact landowners in priority areas

3. Provide outreach activities; secure funding to do this.

- Identify grant opportunities and apply for funding

4. Identify location and type of appropriate BMP for restoration activity; utilize and implement the following amount of BMPs:

a) at least 2,900 acres of riparian buffer strips

- Contact NRCS and request assistance

b) at least 500 acres (or 5% of existing wetland acreage) wetland restoration

- Contact NRCS and request assistance

c) at least 3,500 acres forest restoration/TSI (combined upland/bottomland forest)

- Contact NRCS and District IDNR Forester and request assistance

d) at least 3,000 acres grassland habitat

- Contact NRCS and request assistance

e) at least 100 acres urban green space (rain gardens)

- Contact Pella to consider rain garden as part of development
- Contact Macomb City Forester

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.

A. Reduce the number of IEPA impaired streams by one (1) and/or increase one (1) CTAP* stream by at least one step (poor to fair; fair to good; good to excellent). * *Critical Trends Assessment Program*

3. Install 500 acres of riparian buffer strips: a) 250 acres grassland; b) 250 acres bottomland forest
 - Conduct necessary survey and design and Install 100 acres annually
 4. Install 100 grassed waterways
 - Conduct necessary survey and design and Install 20 (40 ac) annually
 6. Increase in-stream habitat in channelized streams: a) Re-meander 1 stream; b) Re-connect 1 channelized stream segment to original floodplain
 - Conduct necessary design and engineering and implement
 7. Install 10 treatment wetlands adjacent to or upstream of an impaired stream or within a prioritized sub watershed
 - Conduct necessary survey and design and install 2 wetlands or 20 acres per year
- C. Increase total stream feet buffered in headwaters area by 10%.
3. Utilize existing BMPs: a) Grassland riparian buffer; b) Forested riparian buffers
 - Conduct necessary survey and design and install 50 acres per year
- D. Monitor water quality downstream of all future projects utilizing chemical and biological assessment techniques where applicable
2. See monitoring plan
 - No further action required
- E. Encourage ten landowners along 1st, 2nd order streams to participate in livestock management programs.
4. Encourage 5 livestock waste management facilities
 - Conduct necessary survey and design and implement 1 per year
- E. Encourage ten landowners along 1st, 2nd order streams to participate in livestock management programs.
5. Install 10,000 feet of livestock fencing adjacent to streams
 - Conduct necessary survey and design and implement 2000 ft per year
- E. Encourage ten landowners along 1st, 2nd order streams to participate in livestock management programs.
6. Install 5 clean water diversions around existing operations
 - Conduct necessary survey and design and implement 1 per year

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.

- C. Stabilize 1000 feet of eroding stream banks.
3. Install 10 treatment wetlands
 - Monitor sediment and nutrients

4. Partner with Ducks Unlimited and tiling company to create demonstration project.
 - Contact project partners and initiate project
 5. Monitor sediment delivery and nutrients downstream of stabilized stream banks for 3 years
 - Install automatic staff gauges
 - Conduct sediment yield measurements at 3 discharges, an order of magnitude apart
 - Complete detailed cross-sections
 - Sample nutrients during storm events (N, P, and VOC)
- D. Stabilize 100 eroding gullies.
5. Monitor sediment delivery and nutrients downstream of stabilized gullies
 - Install automatic staff gauges
 - Complete detailed cross-sections and conduct bed and bank particle analysis
 - Sample nutrients during storm events (N, P, and VOC)
 - Conduct sediment yield measurements at 3 discharges, an order of magnitude apart
- E. Educate 1000 landowners about federal and state programs aimed at reducing erosion.
2. Identify and recognize those utilizing government programs successfully as they relate to erosion control
 - Invite those individuals to present at watershed meetings

YEAR SIX AND BEYOND – 2011-2018

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.

A. Increase by at least 7,000 acres the amount of wildlife habitat and nature communities protected through conservation easements.

5. Establish at least 1000 acres of prairie habitat

- Utilize incentive programs and grant opportunities to establish habitat

6. Establish at least 5000 acres of forested habitat:

- Utilize incentive programs and grant opportunities to establish habitat

7. Establish at least 1000 acres of wetland habitat

- Utilize incentive programs and grant opportunities to establish habitat

B. Protect five INAI* natural areas through conservation easements. * Illinois Natural Areas Inventory

2. Facilitate protection for priority INAI sites

- Contact landowners and promote protection of these INAI sites

COMPLETED

GOAL I: FACILITATE THE MANAGEMENT, RESTORATION AND PRESERVATION OF NATURAL COMMUNITIES WHILE ENHANCING THEIR BIODIVERSITY.

A. Increase by at least 7,000 acres the amount of wildlife habitat and nature communities protected through conservation easements.

2. Target conservation easements in priority 'protection' sub watersheds

- Identify 3 critical (priority) HUC 12 sub-watersheds

B. Protect five INAI* natural areas through conservation easements. * *Illinois Natural Areas Inventory*

1. Identify and inventory areas most needing protection.

- Brown County:
 - Little Missouri Creek Dells (forest; barrens; stream)
 - Snyder Hill Prairie (prairie)
- Schuyler County
 - Browning Woods (forest)
 - Sugar Creek (barrens)
 - La Moine River (section of stream north of Brooklyn)

D. Improve five INAI sites.

1. Prioritize all existing INAI sites based on need for restoration/management

- Provide list of top five priority INAI sites in need or restoration management

GOAL II: SUPPORT THE IMPROVEMENT AND PROTECTION OF WATER RESOURCES WITHIN THE ECOSYSTEM.

A. Reduce the number of IEPA impaired streams by one (1) and/or increase one (1) CTAP* stream by at least one step (poor to fair; fair to good; good to excellent). * *Critical Trends Assessment Program*

1. Target water quality improvement activities in sub-watersheds prioritized for water quality and restoration

D. Monitor water quality downstream of all future projects utilizing chemical and biological assessment techniques where applicable

1. Report annual changes in 303(d) listed streams

- Drowning Fork
- East Fork La Moine
- Spring Lake
- Lake Argyle

GOAL III: ADVANCE EFFORTS THAT CONTRIBUTE TO A REDUCTION IN SOIL EROSION AND SEDIMENTATION.

A. Reduce Sheet and Rill Erosion entering streams by 10% on eroding ground.

1. Prioritize work in sub watersheds identified for erosion reduction
2. Field verify erosion prediction model and verify the location of fields with conventional tillage occurring
 - Submit proposal for funding

B. Improve stream stability in 4 critical stream reaches.

4. Focus erosion control in areas of watershed with lakes.

C. Stabilize 1000 feet of eroding stream banks.

1. Locate projects in a sub watershed identified for erosion reduction with existing fly-over information available

D. Stabilize 100 eroding gullies.

1. Locate projects in a sub watersheds identified for erosion reduction
3. Prioritize gullies based on current erosion rates and estimated load reductions.
 - Contact eligible landowners.