

Table 8.

**ANTICIPATED BUDGET BY PROGRAM AREA TO IMPLEMENT LWRM PLAN
2019-2021**

3/19/19

ENERGY CONSERVATION & WASTE REDUCTION

Goal 1. Develop, support, & advance county initiatives that allow the county to adapt to climate change, including initiatives that conserve energy, reduce waste, & serve as a catalyst for broader community efforts to conserve energy, limit carbon emissions, & increase renewable energy production.	2019				2020				2021			
	LCFM Resources		Other Resources		LCFM Resources		Other Resources		LCFM Resources		Other Resources	
	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$
Objective 1 - Factor climate change into county operational plans.												
<ul style="list-style-type: none"> Emergency response and disaster relief Road and dam infrastructure as managed and mandated by the County Departments Management of the County Forest timber resources Soil & water conservation, stormwater management, & flood & prevention on private lands 												
Objective 2 - Develop and implement a county energy conservation program for co. operations.												
<ul style="list-style-type: none"> Review & evaluate the operational status of the existing Chip. Co. energy conservation plan Consider the costs & benefits of updating the plan to systematically record & monitor energy use and to identify, select, and implement new energy conservation projects Establish an energy conservation education & outreach project & program to inform employees, other municipalities, & the public of energy conservation savings achieved to date, & future savings 												
Objective 3 - Encourage alternative energy production that uses wind, waste stream bi-products, or biomass generated from agricultural or forestry operations.												
<ul style="list-style-type: none"> Design and implement pilot project to evaluate, further refine, & advance the use of ag biodigesters using an. waste as a fuel source for local heat, fuel or electrical energy production Design & impl. a pilot project to evaluate the use of industrial scale composting tech, using animal waste & crop residue from a working livestock facility, to evaluate the feasibility & cost-efficiency of producing compost as a soil amendment Design & implement a pilot project to determine the feasibility of producing renewable electrical energy from distributed sources, including manure digesters & small-scale farmstead-based wind generators <ul style="list-style-type: none"> -Assess interest by local electrical utilities & farm organizations to explore and evaluate technology -Prepare a project proposal that includes funding & site selection -Assist interested operator(s) to plan, implement, & eval a renewable energy project 	0.25	2500			0.25	2,500		50,000				
					0.25	25,000		25,000				
Objective 4 - Develop & administer recycling & solid waste management programs that reduce, reuse, & ensure the proper disposal of waste materials.												
<ul style="list-style-type: none"> Maintain role as Responsible Unit Coordinator for municipalities Design & implement a project to collect & market office paper from all public & county-owned facilities Conduct evals & collaborate with municipalities to encourage recycling at all public facilities Conduct evals & collaborate with public & private schools to encourage & increase recycling 					0.1	5,000						
					0.1	50,000						
	0.25	2,500							0.25	25,000		

LAND CONSERVATION AND SUSTAINABILITY

Goal 2. Develop and administer conservation programs that preserve the land, support sustainable production, provide biodiversity, and protect the natural ecology.	2019				2020				2021			
	LCFM Resources		Other Resources		LCFM Resources		Other Resources		LCFM Resources		Other Resources	
	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$
<p>Objective 1. Actively support the economic viability & sustainability of existing agricultural operations, the local ag economy, & rural communities.</p> <ul style="list-style-type: none"> Establish structured & ongoing communication with the Chippewa Co. Economic Dev. Corp. to identify & support economic development opportunities for agricultural producers, processors, & related business enterprises Working in association with local ag organizations & processors, ag org., UWEX & CCEDC, define & implement project initiatives that seek to assure a diverse mix of ag operations that are scaled to provide local job opportunities, maintain & support local ag economy, & sustain rural communities Actively explore & support initiatives that maintain existing family-owned operations & agri-businesses, establish local food to table markets, encourage farm-based renewed energy production, & encourage cooperative development & business ventures Develop a pilot project working through ag producers in an established Agricultural Enterprise Area (AEA) to meet a defined community need & agricultural business objective Develop & implement pilot project(s) to evaluate emerging technology that can be applied to optimize inputs, limit env. concerns, & sustain crop production (irrigated & non-irrigated) 					0.25	10,000						
					0.1		50,000					
					0.1		25,000					
<p>Objective 2 - Support the efforts of individual landowners, private nonprofit organizations, & local municipalities to protect farmland & to preserve productive "working lands" under WI Stats., Chapter 91.</p> <ul style="list-style-type: none"> Actively support the efforts of landowners & agricultural producers who petition to develop & implement an Agricultural Enterprise Area (AEA) or who seek to participate in Farmland Preservation Zoning under WI Stats., Chapter 91 Provide technical & administrative support to landowners & agricultural producers who enter farmland preservation contracts or who participate in Farmland Preservation Zoning to meet State program requirements <ul style="list-style-type: none"> -Conduct NR151 farm evals & provide tech services to all new & existing program part. -Conduct annual reporting & certification process to verify landowner compliance 	0.25				0.25				0.25			
<p>Objective 3. Administer the WI CREP Program to establish stream & wetland buffers. Assess program options for continued Co. administration under the WI CREP Program.</p> <ul style="list-style-type: none"> Maintain & expand an annual buffer evaluation & maintenance program to assure contract compliance & to assist landowners to maintain the biodiversity & enviro function of buffers With DATCP & FSA, explore USDA program options to establish special area designation to facilitate expanded program functions as targeted to watersheds with poorly defined drainage patterns located east of the Chippewa River With DATCP & FSA, explore USDA program options to allow periodic mowing & harvest of perennial hay to control woody vegetation, maintain grassland habitat cover, & remove nut. 	0.25				0.25				0.25			
					0.1							
					0.1							

LAND CONSERVATION AND SUSTAINABILITY

Goal 2. Develop and administer conservation programs that preserve the land, support sustainable production, provide biodiversity, and protect the natural ecology, con't.	2019				2020				2021			
	LCFM Resources		Other Resources		LCFM Resources		Other Resources		LCFM Resources		Other Resources	
	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$
<p>Objective 4. Encourage biodiversity & sustainable ag., forest & biomass prod. on private lands by providing tech. assistance & conservation program services to landowners.</p> <ul style="list-style-type: none"> Administer educational services, technical services, & financial incentives to ag producers through state/federal ag conservation & nonpoint pollution control programs Administer ed services, technical services, & financial incentives to woodland producers through local producer networks, woodland mngt orgs, & state/federal forestry programs Provide tech services to the owners & operators of non-metallic mine sites, abandon mines, & brown fields to reclaim disturbed sites & achieve productive & sustainable end land uses <p>Objective 5. Support the efforts of major farm & forestry org. & public agencies to develop & pursue market-based mechanisms to sequester carbon increase, soil organic matter, improve water quality & mitigate climate change as part of ongoing ag & forestry operations, including efforts to compile, market, & monitor carbon & water quality credits.</p> <p>Objective 6. Support the efforts of individual landowners, private nonprofit conservation orgs. & municipalities to preserve unique lands with high public & environmental value.</p> <ul style="list-style-type: none"> Actively administer & maintain the Chippewa Co. Stewardship Program to support the acquisition of land and/or conservation easements by municipalities or nonprofit orgs for conservation purposes Initiate project to increase public awareness of the "Living Land Endowment" as an est. agency directed endowment of the Chippewa Co. Community Foundation, to encourage & facilitate co. giving to sprt. public acquisitions of land with high natural, eco or scientific value With private, nonprofit conservation orgs, define the location of high priority conservation areas having significant public value or unique ecological significance In cooperation with nonprofit conservation organizations, maintain a wild lakes registry for undeveloped lakes as a companion to the WI Scientific & Natural Areas Program <p>Objective 7. Encourage land conservation & biodiversity through use of corridor initiatives.</p> <ul style="list-style-type: none"> Work in assoc. with local landowners, US Park Service, Ice Age Council, & Chip. Co. Chap. of the Ice Age trails to plan & establish the location of the Natural Ice Age Trail corridor Work in conjunction with the WDNR and interested landowners to determine the feasibility of est. enviro. corridor linking McCann Ck. Fishery Area to the Ice Age National Scien. Rsv. <p>Objective 8. Encourage & support efforts to reclaim surface mined lands to native plant communities with high ecological value as wildlife habitat.</p> <ul style="list-style-type: none"> Develop & expand working relationships with permitted nmm & university researchers to est. test plots to demonstrate nmm reclamation processes & establish reclamation test plots Establish & maintain a working relationship of ecological consultants to assist landowners restore, manage, & maintain native plan communities on private lands Establish & maintain a working relationship with consultants & the WDNR to provide controlled burn services on public & private lands 												
	0.1	50,000	?		0.1	50,000	?		0.1	50,000		?
	0.1	5,000										
					0.1	5,000						
	0.1	10,000			0.1	10,000			0.1	10,000		

Goal 3. Develop, support, and implement water conservation programs to maintain current aquifer volumes and to protect the county's drinking water supply.	2019				2020				2021				
	LCFM Resources		Other Resources		LCFM Resources		Other Resources		LCFM Resources		Other Resources		
	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	
<u>Lake & Flowage Management</u>													
Objective 1. Establish mechanisms to facilitate structured communication between the co., DNR, & est. lake district(s), lake assoc., & other lake orgs. to improve institutional capacity <ul style="list-style-type: none"> •Conduct formal survey to assess interest on behalf of lake districts & associations •Establish web page links to network & share lake mngt info. of common value to riparian residents & shoreland owners •Plan & conduct an annual Chippewa Co. Lake Conference sponsored by cooperating lake org. on a round robin basis 	0.1	5,000	?	?	0.1	5,000	?	?	0.1	5,000	?	?	
Objective 2. With WDNR & interested organizations, design, implement, & maintain a co.-based stream & lake water quality program, supported by citizen science volunteers & use remote sensing technology					0.1	2,500	?	?	0.1	2,500	?	?	?
Objective 3. With DNR & interested conservation non-profit org., establish a Wild Lakes Prog. for the purpose of scientific study, ecological monitoring, & permanent lakes protection <ul style="list-style-type: none"> •Conduct inventory of native lakes with no development & compilation of data with DNR •Establish wild lakes registry to facilitate scientific study & permanent lake protection 					0.1	2,500	?	?	0.1	2,500	?	?	?
Objective 4. With WDNR, evaluate interest & feasibility of sponsoring phased hydrologic study of Holcombe Flowage <ul style="list-style-type: none"> •Design & implement water quality monitoring program •Model the estimated volume, phosphorus concentrations, & residency time of streamflow contributed from Chippewa River & Jump River subbasins •Model the relationship between phosphorus concentrations, phosphorus loads, chlorophyll, & the frequency of algae blooms on the Jump River embayment 								0.1	2,500				
								0.25	10,000				
												0.25	10,000
Objective 5. Refine the existing flowage management plans for each of the managed flowages in the Chippewa County Forest to identify the specific mngt goals for each based upon the physical site limitations, the intended outdoor recreational seasonal use, & any broader County Forest mngt objectives.					0.1	2,500							
Objective 6. For each of the dams, lakes, & flowages managed by the Co., conduct all scheduled inspections, associated eng. analysis, & required dam maintenance to meet state dam licensing & safety requirements.										0.25	15,000		

NONPOINT SOURCE WATER POLLUTION CONTROL

Goal 4. Develop & administer nonpoint sources of water pollution control programs to pursue state and local water quality objectives.	2019				2020				2021			
	LCFM Resources		Other Resources		LCFM Resources		Other Resources		LCFM Resources		Other Resources	
	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$
<p>Objective 1. Administer the NR151 agricultural nonpoint source pollution control performance standards on a co.-wide basis, using authority of WI Stats. 59, 92, 281, & Admin Rules NR 115, NR 243, NR 151 & ATCP 50.</p> <ul style="list-style-type: none"> Assess interest on behalf of the major farm org. to implement an educational outreach project to inform ag producers, rural landowners, & general public about agriculture & the ag performance standards & the co.'s program to administer them Systematically schedule & conduct site specific farm walkovers & farm evaluations on priority farms to explain the ag performance standards & prepare written reports that doc the extent of current compliance Admin voluntary farm evaluation & certification program following the practices & mngt approach established in this plan Implement a well-defined co. regulatory framework to enforce NR151 standards Actively participate in WI WPDES permitting process for livestock facilities administered by DNR under NR 243 or NR 151 	0.75				0.75				0.75			
<p>Objective 2. Support efforts of crop & livestock producers, their agronomic service providers, & associated certified crop advisors, to develop, implement, & maintain nutrient mngt plans that meet the WI NRCS Technical Guide 590 standards.</p> <ul style="list-style-type: none"> Conduct farm walkovers to identify soil & water conservation needs & objectives Gather information on current soil testing, cropping, & nutrient mngt procedures to create baseline information in selected field record keeping format, compatible with prescribed nutr. mngt software (SNAP Plus Map or state approved alternative) <p>To support ongoing plan implementation & quality control:</p> <ul style="list-style-type: none"> Encourage direct involvement by individual crop & livestock producers as annual plan updates are prepared by state certified crop advisors Compile, review, & maintain a record of all annual plan updates & submittals. Track & monitor cropland field erosion rates, soil organic material, & cropland field & farm weighted average phosphorus index values Arrange & participate in a state & local quality control program using a system of annual farm spot checks to assure compliance with WI Admin. Rules, co. ord., & co., st. or Fed contracts With UWEX, sponsor annual meeting of all certified crop advisors, consultants, custom manure & fertilizer applicators, & other agronomic service providers who provide nutrient & pest mngt services to ag producers 	1.0				1.0				1.0			
<p>Objective 3. Develop & implement a climate change flood control stream & wetland buffer initiative to mitigate the impacts of extreme weather events associated with climate change, with the objective of reducing runoff controlling flood peaks, & limit nonpoint source pollution.</p> <ul style="list-style-type: none"> Create a conceptual proposal for pilot project using permanent conservation easements & advance a funding request through the Co. Capital Improvement Program (CIP) 					0.25	50,000		?	0.25	50,000		?

PUBLIC EDUCATION AND COMMUNITY OUTREACH

Goal 6. Facilitate Public Education and Community Outreach.	2019				2020				2021				
	LCFM Resources		Other Resources		LCFM Resources		Other Resources		LCFM Resources		Other Resources		
	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	# FTE	\$	
Educational Service Delivery													
Objective 1. Use the structure of existing educational institutions & community organizations to deliver the community outreach & educational programs to pursue natural resource management & program objectives.													
<ul style="list-style-type: none"> ● Create and implement Agricultural Agency Education Coordinating Council to: <ul style="list-style-type: none"> - Facilitate structure communication & develop & oversee the implementation of an annual interagency soil & water conservation education workplan ● Expand working relationships with youth-based community orgs to provide opportunities for environmental education & civic engagement ● Establish working relationships with public education institutions (K-12) to inventory, customize, & support programs that focus on earth, biological, & agricultural sciences ● Maintain & expand working relationships with post-secondary education institutions (technical college, UW system) to sponsor applied research, special environmental studies, & opportunities for student internship 	0.1				0.1				0.1				
	0.1	7,500			0.1	7,500							
	0.5	20,000			0.5	20,000			0.5	20,000			
Community Outreach													
Objective 1. Develop institutional framework and management structure to further engage citizen volunteers, civic organizations, & youth to pursue resource management program objectives.													
<ul style="list-style-type: none"> ● Apply existing program LCFM Forest & Trails Div. framework to recruit, train, & mng vol. ● Conduct needs assessment to evaluate LCFM staff & conservation organization capacity to expand community engagement ● Evaluate the "Rusk County Volunteer Challenge" model to determine concepts that may transfer ● Explore the feasibility of establishing a working arrangement with the co. court system to provide opportunities for conservation-based community service projects for troubled youth or for low risk non-violent offenders 	0.1			?	0.1			?	0.1			?	

Note 1: Projected estimates are provided to illustrate the anticipated scope of the project and are offered for planning purposes.

Note 2: Actual project estimates will be prepared as part of the county budget process at the time the specific project initiatives or activities are advanced.