

**Upper Little Miami River and Caesar Creek
TMDL Implementation Chapter**

#	Implementation Actions & Management Measure	Effectuated Stream/Party	Parameters Effectuated/Benefits	Estimated Effectiveness ¹	Storm Water	Septic Systems	Agriculture and Riparian	Public Education	Point Source Controls	Completed?
1	Draft model sediment and erosion control ordinances	uLMR	Sediment and P reductions, improve habitat		X					
2	Draft model stormwater ordinances: Use critical storm method of determining basin size	LMR	Reduce instream erosion, reduce Urban NPS loadings		X					
3	Create a list of acceptable stormwater BMPS	LMR	Reduce Urban NPS loadings	60-80% based on BMPs selected	X					
4	Coordinate a field day to showcase SEC/SW BMPs	LMR	Increase use of BMPs (reduce NPS loadings)		X					
5	Draft model stormwater ordinances: Use non-structural BMPs preferentially	LMR	Reduce Urban NPS loadings	60-80% based on BMPs selected	X					
6	Create and implement adult NPS education program	LMR	Reduce Urban NPS loadings, increase public		X		X	X		
7	Expand existing SWCD programs to include SW	LMR	Increase public participation		X					
8	Recommend switching existing permits for sites from general to individual	uLMR	Site specific pollutant reduction	Site specific	X					
9	Phase II Compliance for Jurisdictions in the urbanized area	LMR, Beaver Cr, Massie Cr.	Reduce Urban NPS loadings	60-80% based on BMPs selected	X					
10	Creation of a TMDL stakeholder group to coordinate activities and oversee progress	LMR	Increase public participation					X		
11	Develop conservation plans on 90,000 acres of cropland in the watershed over 4 years. Conservation plans document decisions by landowners to implement BMPs listed in this table	LMR and tribs	Sediment, phosphorus, nitrogen reductions, improved wildlife habitat	Effectiveness listed for each BMP, see following items in Table 14			X			

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12	Establish 50 acres of new grassed waterways per year in the watershed	LMR and tribs	Sediment, phosphorus reductions	95% reduction in areas treated			X			
13	Establish 75 acres of new grassed filter strips per year in the watershed	LMR and tribs	Sediment, phosphorus, nitrogen reductions, improved habitat	60-80% reductions in treated fields once established			X			
14	Establish 20 acres of new tree planting per year in the riparian corridors of the watershed	LMR and tribs	Sediment, phosphorus, nitrogen reductions, improved habitat	70-90% reductions in treated areas, once established			X			
15	Promote the adoption of evolving technologies (residue management, prescription farming, etc.) in the watershed.	LMR and tribs	Sediment, phosphorus, nitrogen reductions.	Highly variable			X			
16	Develop manure nutrient management plans for farmers with livestock (Regulations will drive demand for those over 300 animal units)	LMR and tribs	Organic material (OM), phosphorus, nitrogen reductions.	20-40% reductions in planned areas, estimated 10 per year			X			
17	Exclude livestock from streams and other water sources on 6 farms per year.	LMR and tribs	Sediment, Organic material, BOD	80% reduction on treated farms.			X			
18	Conservation easements, land ownership by non profit civic groups, i.e. Beaver creek Wetlands, LMRP	LMR and tribs	Sediment, phosphorus, nitrogen reductions, improved habitat	60% reduction in treated areas			X			
19	Health Department manifest program for septic tank handlers	Watershed entire	Sediment, CBOD, TSS, phosphorus, ammonia, bacteria, heavy metals	Proper land application of haulers is the manifest program 60-90% com Inc		X				
20	Education, canoeing, etc. report in areas identified as to septic tank leach field runoff into streams	Watershed entire	Sediment, CBOD, TSS, phosphorus, ammonia, bacteria, heavy metals	10 years minimum 50% reduction		X				

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21	General education program, or septic tank maintenance - GIS, etc. - ongoing	Watershed entire	Sediment, CBOD, TSS, phosphorus, ammonia, bacteria, heavy metals	3 years survey - 319 grant - 40% reduction		X		X		
22	800 septic tanks taken off line and sanitary sewer w/treatment provided - as sanitary sewers are extended more septic tanks will be removed	Caesar Creek	Elimination	100% - 2006		X				X
23	25 septic tanks taken offline and sanitary sewer w/treatment provided	Glady Run	Elimination	100% - 2001		X				X
24	Hold field day to show sediment erosion control/stormwater BMPs	All Stakeholders	ALL	Cross reference with #4	X			X		
25	Create and implement adult NPS education program	All Stakeholders	ALL	Cross reference with #6	X	X		X		
26	Educate septic tank handlers - manifest program	Septic tank handlers	ALL	Cross reference with #19		X				
27	Septic tank maintenance education program	Homeowners	ALL	Cross reference with #21		X		X		
28	Formation of a LMR/NPS education subcommittee that pursues/oversees/ supplements/funds educational opportunities	All Stakeholders; All major educational partners	ALL					X		
29	Educate the agricultural community about evolving technologies	Agriculture	ALL	Cross reference with #15			X	X		
30	Educate landowners about the benefits of grassed waterways/filter strips	Agriculture /Rural	ALL	Cross reference with #13/14			X	X		
31	Educate landowners about why livestock should be excluded from waterways	Agriculture	ALL	Cross reference with #17			X	X		
32	Conduct survey of stakeholders to assess their level of knowledge on watersheds and NPS	All Stakeholders	ALL					X		

Please come to the TMDL Implementation Group Meeting May 21 2008 at 2:00 pm.
Job and Family Services Center - 541 Ledbetter Road, Xenia, OH 45385

Help us complete this table!