SUBWATERSHED MANAGEMENT UNIT SUMMARY SHEET

Subwatershed

Management Unit: Coopers, Clear, and Black Creeks

Major Watershed Name: Flat River

Hydrologic Unit Code: 04050006-0106, -0107, -0108

WATERSHED DESCRIPTION:

Size (acres):	65,401		Land Use (% of total)	
Counties:	Kent, Montcalm	-	Agricultural	52%
Cities, Villages & Pierson, Sand Lake, Maple		le Vallev. Pine. Montcalm.		
Townships: Spencer, Oakfield, Nelson			Forest Land	19%
Critical Area for Restoration:		Medium	Lakes	3%
Priority Area for Preservation:		Medium	Open Land	3%
			_ Urban	4%
Pollutant Loadings			Wetlands	19%
Sediment (tons/yr)	637		Troudac	,
Phosphorus (lbs/yr)		-		
Nitrogen (lbs/yr)		<u>-</u>		
runogen (1867yr)	100,010	-		
Priority Pollutant		Pathogens		
		r -	1	
Priority Sources		Cropland	Livestock	Septic tanks
		Over or improper	Uncontrolled livestock	
Priority Causes		application of manure		Aging systems
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Trout Streams/Miles		Butternut Creek	1.3	
		Dutterriut Creek	1.0	
Streams with Total Maximum Daily Loads		Lincoln Lake Pine Resort	Beach TMDL E.Coli 2006	
& Dates of Implementation				
Wellhead Protection Area(s)		NO		
PLANS & STUDIES:				
		r		
Watershed Management Plan		None		
		.		
Other Studies		No		
MDNRE Surface Water Quality Assessment		25200 MI/DEO/SWO 02/	(004/05200	
		25300, MI/DEQ/SWQ-02/	004/25300	
Surveys				
MDNRE Hydrologic Studies		NA		
		IVA		
Local Water Quality Monitoring / Inventories				
WATERSHED PARTNERS:				
TATERONED I ARTHERO	···			
Watershed Organization(s)		LGROW		
Trateroneu Organization	(3)	LONOVV		
NPDES Municipal Separate Storm Sewer System				
(MS4) Communities	ne Storm Sewer System			

Last Update: 9/9/2010