

# SUBWATERSHED MANAGEMENT UNIT SUMMARY SHEET

**Subwatershed**  
**Management Unit:** Mud Creek  
**Major Watershed Name:** Thornapple River  
**Hydrologic Unit Codes:** 04050007-0207, -0208



**WATERSHED DESCRIPTION:**

<b>Size (acres):</b>	12,955	<b>Land Use (% of total)</b>	
<b>Counties:</b>	Barry, Eaton, Ionia	<i>Agricultural</i>	75%
<b>Cities, Villages &amp; Townships:</b>	Sunfield, Woodland, Sebewa, Castleton, Vermontville	<i>Forest Land</i>	11%
<b>Critical Area for Restoration:</b>	High	<i>Lakes</i>	1%
<b>Priority Area for Preservation:</b>	Low	<i>Open Land</i>	1%
		<i>Urban</i>	2%
		<i>Wetlands</i>	10%
<b>Pollutant Loadings</b>			
Sediment (tons/yr)	350		
Phosphorus (lbs/yr)	6,384		
Nitrogen (lbs/yr)	38,765		

<b>Priority Pollutant</b>	Sediment		
<b>Priority Sources</b>	Cropland	Urban landscapes	Streambanks
<b>Priority Causes</b>	Tillage practices	Impervious surfaces	Altered morphology/hydrology
<b>Trout Streams</b>	None		
<b>Streams with Total Maximum Daily Loads &amp; Dates of Implementation</b>	Gravel Brook, Hagar Creek and Mud Creek TMDL Other anthropogenic substrate alterations and Other flow regime alterations Date NA		
<b>Wellhead Protection Area(s)</b>	None		

**PLANS & STUDIES:**

<b>Watershed Management Plan</b>	Mud Creek
<b>Other Studies</b>	NA
<b>MDNRE Surface Water Quality Assessment Surveys</b>	25300, 003900, MI/DNR/SWQ-91/052, MI/DEQ/SWQ-98/030
<b>MDNRE Hydrologic Studies</b>	Thornapple River Watershed Flashiness Report (MDEQ 2008)
<b>Local Water Quality Monitoring / Inventories</b>	None
<b>WATERSHED PARTNERS:</b>	
<b>Watershed Organization(s)</b>	LGROW
<b>NPDES Municipal Separate Storm Sewer System (MS4) Communities</b>	None

**Last Update:** 9/14/2010