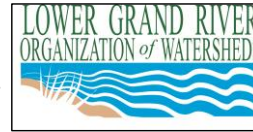


SUBWATERSHED MANAGEMENT UNIT SUMMARY SHEET

Subwatershed

Management Unit: Direct Drainage to the Grand River
Major Watershed Name: Direct Drainage to the Grand River
Hydrologic Unit Codes: 04050006-0307, -0308, -0310, -0312, -0313, -0502, -0507, -0512, -0705, -0708, -0709, -0712, 04050004-0710



WATERSHED DESCRIPTION:

Size (acres):	275,237	Land Use (% of total)	
Counties:	Ottawa, Kent, Ionia, Eaton	<i>Agricultural</i>	33%
Cities, Villages & Townships:	Ferrysburg, Spring Lake, Grand Haven, Grandville, Walker, Grand Rapids, East Grand Rapids, Lowell, Saranac, Ionia, Lyons, Muir, Portland, Crockery, Robinson, Allendale, Polkton, Tallmadge, Georgetown, Wyoming, Kentwood, Plainfield, Alpine, Cannon, Ada, Vergennes, Cascade, Boston, Keene, Eaton, Berlin, Orange	<i>Forest Land</i>	26%
Critical Area for Restoration:	High	<i>Lakes</i>	4%
Priority Area for Preservation:	Medium	<i>Open Land</i>	4%
Pollutant Loadings		<i>Urban</i>	24%
Sediment (tons/yr)	4,676	<i>Wetlands</i>	9%
Phosphorus (lbs/yr)	118,380		
Nitrogen (lbs/yr)	686,410		

Priority Pollutant Pathogens

Priority Sources Cropland Livestock Septic tanks

Priority Causes Over or improper application of manure Uncontrolled livestock access Aging systems

Trout Streams/Miles Tribs of Pottawatomie Bayou, Tribs of Millhouse, Stearns, Lloyd, Dermo, and Bruce Bayous Unnamed trib of Grand River, Goose Creek and unnamed trib, Tibbets Creek, Unnamed Tribs of Grand River, Timberlin Creek, Crooked Creek, Toles Creek, Lee Creek, Unnamed Trib to Grand River, Honey Creek and unnamed trib to Honey Creek, Sunny Creek, Egypt Creek, Unnamed trib to Egypt Creek, York Creek, Lambertson Creek, Unnamed tributary, Roy's Creek
72.8

Streams with Total Maximum Daily Loads & Dates of Implementation York Creek TMDL for Alterations in wetland habitats & Sedimentation/Siltation 2005; Grand River TMDL E. Coli 2006, Unnamed Trib. To Grand River TMDL OASA, OFRA 2016; Maplewood Lake Park Beach TMDL E. coli 2021; Ottawa Creek TMDL Bacterial slimes 2016; Grand River, Grand Haven Boaters Park Beach TMDL E. coli 2016

Wellhead Protection Area(s) YES

PLANS & STUDIES:

Watershed Management Plan None/Hager Creek/WCLMI Resource Plan/York Creek

Other Studies Ottawa County Drain Commissioner Hager Creek Storm Water Plan; Ionia Drain Commissioner SWMP, Cascade Twp. Stormwater Management Plan, City of Grand Rapids Storm Water Management Master Plan (1994), Grand Rapids Twp (In Progress)

MDNRE Surface Water Quality Assessment Surveys

MDNRE Hydrologic Studies Plankton in the Lower Grand River at Lowell, Michigan, 2001-2002./Combined Sewer Overflow Study (1990), Roy's Creek Watershed Study 1997

Local Water Quality Monitoring / Inventories

WATERSHED PARTNERS:

Watershed Organization(s) LGROW

NPDES Municipal Separate Storm Sewer System (MS4) Communities Allendale Twp., Georgetown Twp., Ferrysburg, Grand Haven, Spring Lake, Cascade Twp., Plainfield Twp., East Grand Rapids, Grand Rapids, Grand Rapids Twp., Walker, Grandville, Wyoming, Kentwood, Kent County Drain Commissioner, Kent County Road Commission, Ottawa County Drain Commissioner, Ottawa County Road Commission

Recommended Projects Allendale Twp. Storm Water Capture and Reuse; GVSU Storm Water LID BMPs; Grand Rapids Dam removal habitat improvement; 5/3 Ballpark LID practices; East Grand Rapids Wetland Restoration