

# 7 Mile Creek Watershed

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7 Mile Creek Data Types: [Excel file](#)

Seven Mile Creek watershed, Nicollet County, MN						
Seven Mile Creek is a much-studied tributary of the Minnesota River. The watershed is small, just 24,000 acres (38 sq mi). It is dominated by row-crop agriculture, except in its lower reaches where the creek flows through a popular county park. Monitoring is focused on the creek's mainstem and its two largest tributaries, SMC 1 and SMC 2.						
Data description	Data category	Publicly avail online now?	Notes	Data density	Length of record	Data quality
Stream discharge (mainstem)	Numerical	Y	MN Cooperative Stream Gauging	Continuous	Approx 20 years	Good
Stream discharge (SMC 1 & SMC 2)	Numerical	Y	MN Cooperative Stream Gauging	Continuous	Approx 8 years	Variable
Water quality (mainstem)	Numerical	Y	State database: EQUIS?	Approx 30/yr		Good
Water quality (SMC 1, SMC 2)	Numerical	Some	Historical: state database, current: Gustavus	Approx 5-30/yr		Variable
Fish surveys		N	MN DNR	Yearly	5 years?	Good
Aquatic invertebrate surveys		N	MN DNR, Gustavus	Sporadic	Sporadic	Good
Vegetation surveys		N	U of M and Gustavus researchers	Sporadic	Sporadic	Variable
Geomorphology surveys		N	Stream profiles and cross-sections	Multiple locations	3 years	Good
Groundwater well (5); hydraulic heads, water quality	Numerical	N	Water table elevation, WQ; Gustavus	Sporadic		Poor
Land-use categories	Geospatial	N		Sporadic		Good
Crop type	Geospatial	Maybe		Yearly	Sporadic	Variable
Other crop data, e.g. yield, fertilizer application, etc.	Geospatial	N		Sporadic	Short	Variable
Implementation project locations	Geospatial	N		Small number of sites	2 years	Good
Topography	Geospatial	Y	State DEMs			Good
Soil type	Geospatial	Y	State surveys			Good
Precipitation	Numerical	Some	Weather stations, Gustavus			Variable