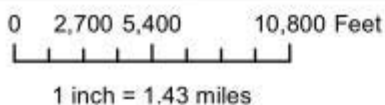
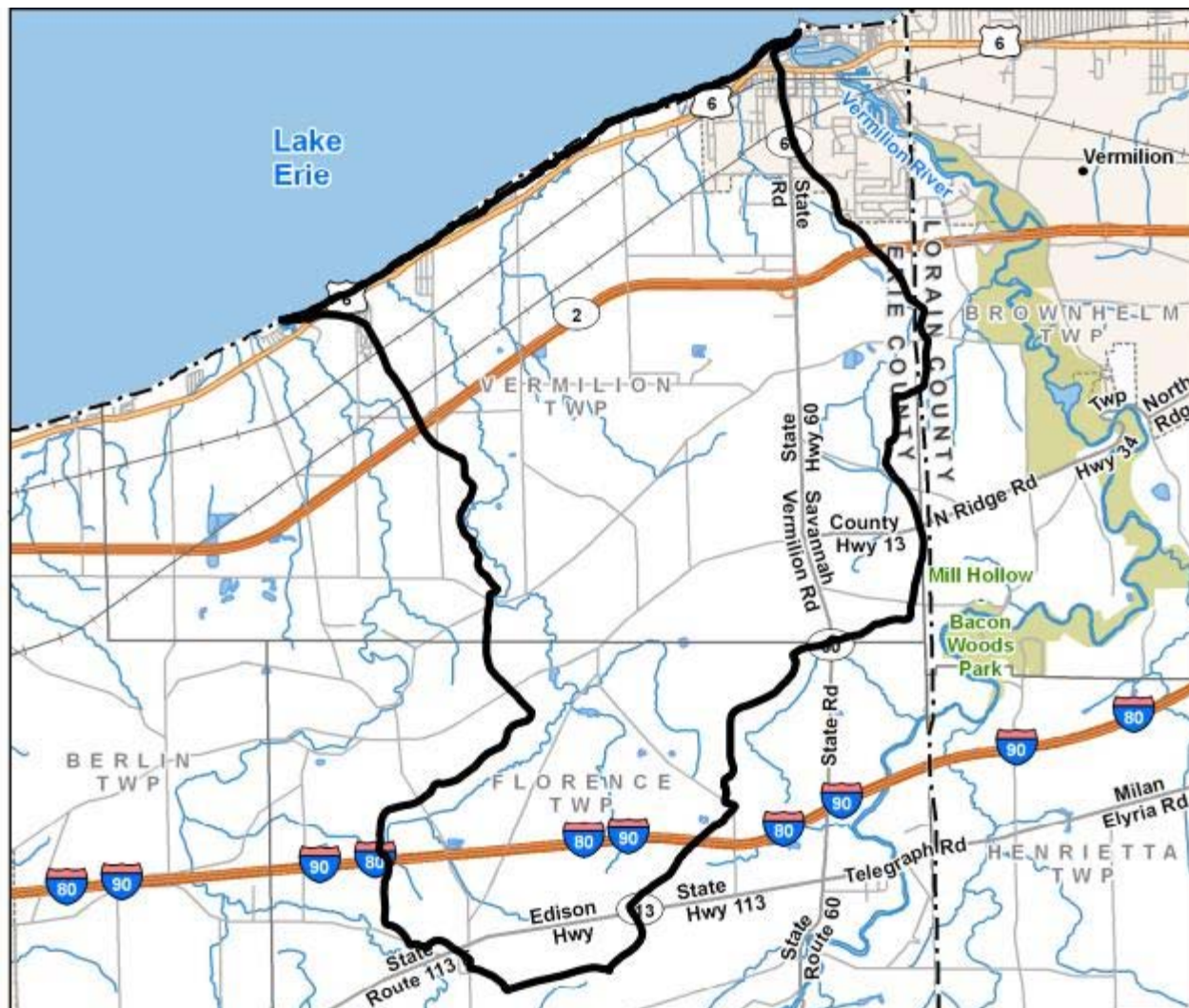


Sugar Creek-Frontal Lake Erie Watershed 041000120301



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Sugar Creek-Frontal Lake Erie

Watershed: 12463.8 acres 19.5 square miles

Hydrologic unit code (12 digit): 041000120301
(old 14 digit): 04110001040030

Watershed Coordinator: N/A
Email: N/A
Phone: N/A

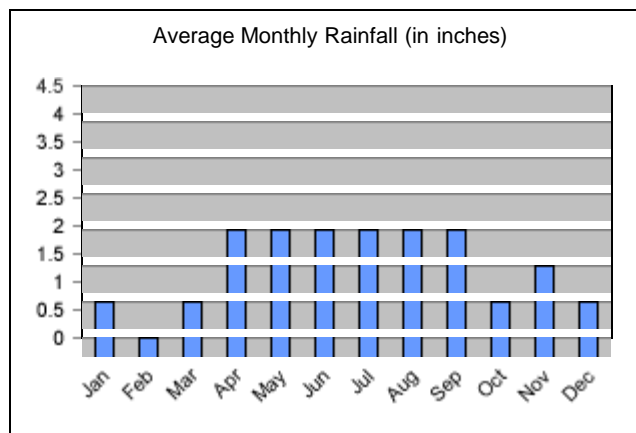
Watershed Action Plan: N/A

Ohio EPA

Aquatic Life Use attainment: Impaired
[TMDL Report \(Based on HUC 11 boundaries\)](#)
[Watershed Assessment Report](#)

Climate

Average annual maximum temperature: 56 F
Average annual minimum temperature: 9.5 F
Average annual Precipitation: 24 inches



In the Watershed

Soil and Water Conservation Districts

Erie 12428.2 acres
Lorain 33.9 acres

Municipalities

Vermilion 443.6 acres

School Districts

Firelands Local 2778.2 acres
Vermilion Local 9664.7 acres

Area having Probable Karst features: 12483.1 acres

Bedrock: sandstone, black shale, water

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Census

Population (reported by block)
1980: 5262 1990: 5900 2000: 6023

Water Resources

100 year floodplain: 444.1 acres
Wetlands (2007): 395.3 acres
Ponds & Lakes: 63.6 acres
Streams & Rivers: 34.9 acres

People (reported by tract)

| | |
|-----------------|------|
| Rural: | 2283 |
| Urban: | 3739 |
| Agricultural: | 53 |
| In Labor Force: | 3097 |

Education (reported by tract)

| | |
|------------------------------|------|
| Enrolled K-12: | 1134 |
| Enrolled college: | 172 |
| Completed <9: | 2297 |
| Completed HS diploma or GED: | 1717 |
| Some college: | 1044 |
| Associates degree: | 263 |
| Bachelors degree: | 465 |
| Graduate degree: | 200 |

Households (reported by tract)

| | |
|-----------------|----------|
| Average Size: | 2.5 |
| Average Income: | \$55,939 |

Soil Resources

| | |
|-----------------------|---------------|
| Prime farmland: | 9788.7 acres |
| Highly erodible land: | 6.9 acres |
| Frequently flooded: | 121.7 acres |
| Hydric: | 13.3 acres |
| Partially hydric: | 10283.4 acres |

Soil Drainage

| | |
|------------------|--------------|
| Well: | 1372.6 acres |
| Moderately well: | 549.3 acres |
| Somewhat poorly: | 5141.7 acres |
| Poorly drained: | 1919.9 acres |

Hydrologic Soil Group

| | |
|------|--------------|
| A: | 840.8 acres |
| B: | 539.7 acres |
| C: | 481.4 acres |
| D: | 2309.3 acres |
| A/D: | 15.4 acres |
| B/D: | 1671.3 acres |
| C/D: | 6532.2 acres |

| | |
|--|---------------|
| Approximate number of water wells: | 121 |
| Area highly sensitive to groundwater contamination: | 12481.2 acres |
| Area above Sole Source Aquifer: | 0.0 acres |
| Area in the Emergency Management Zone: | 0.0 acres |
| Ohio EPA permitted Combined Sewer outflow locations: | 0 |

Land Use and Environment

| | |
|---|---|
| Conservation & Recreation Land: | 201.7 acres |
| <u>Resource Conservation Activities</u> | |
| BMP installation and land user assistance: | 22.0 sites |
| | 8.9 acres |
| Ohio EPA Approved bio-solid application fields: | 176.9 acres |
| Ohio EPA/ODA combined animal feeding operations and facilities: | 0.0 acres |
| Ohio EPA NPDES industrial and municipal discharge permits: | 9 |
| Dams: | 6 |
| Pre-settlement vegetation: | Beech Forests Mixed Mesophytic Forests |
| Ecological region: | Erie Lake Plain, Clayey High Lime Till Plains |

Land Use (acres)

| | 2009 | 2001 | 1994 |
|-------------|--------|--------|--------|
| Agriculture | 5436.1 | 7348.2 | 7987.0 |
| Water | 53.5 | 526.5 | 283.6 |
| Urban | 2014.0 | 363.2 | 351.8 |
| Forest | 4950.2 | 4245.9 | 3784.3 |
| Barren | 1.5 | 0.0 | 2.9 |
| Shrub/Scrub | 0.8 | 0.0 | 10.2 |

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9/29/2011

Watershed impairments (Ohio EPA)

| Causes | Sources |
|--------|---------|
| N/A | N/A |

Ohio EPA Aquatic Life Use Designation Miles

| | Miles |
|-------------------------------------|-------|
| Coldwater Habitat (CWH) | 0.0 |
| Exceptional Warmwater Habitat (EWH) | 0.0 |
| Warmwater Habitat (WWH) | 13.8 |
| Limited Resource Water (LRW) | 0.0 |

Ohio EPA Source Water intakes and Protection Areas

| System | # of | Acres |
|--------|------|-------|
| | | |

| | | |
|---------------|---------|-------|
| | intakes | |
| Vermilion Pws | 0 | 130.5 |

| | |
|----------------------------------|-----|
| Limited Warmwater Habitat (LWH) | 0.0 |
| Modified Warmwater Habitat (MWH) | 0.0 |
| Seasonal Salmonid Habitat (SSH) | 0.0 |

Ohio EPA Ground water wells and Protection Areas by time of travel

| System | # of wells | 1 year (acres) | 5 year (acres) |
|--------|------------|----------------|----------------|
| N/A | N/A | N/A | N/A |

Ohio EPA Aquatic Life Use Designation

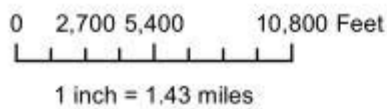
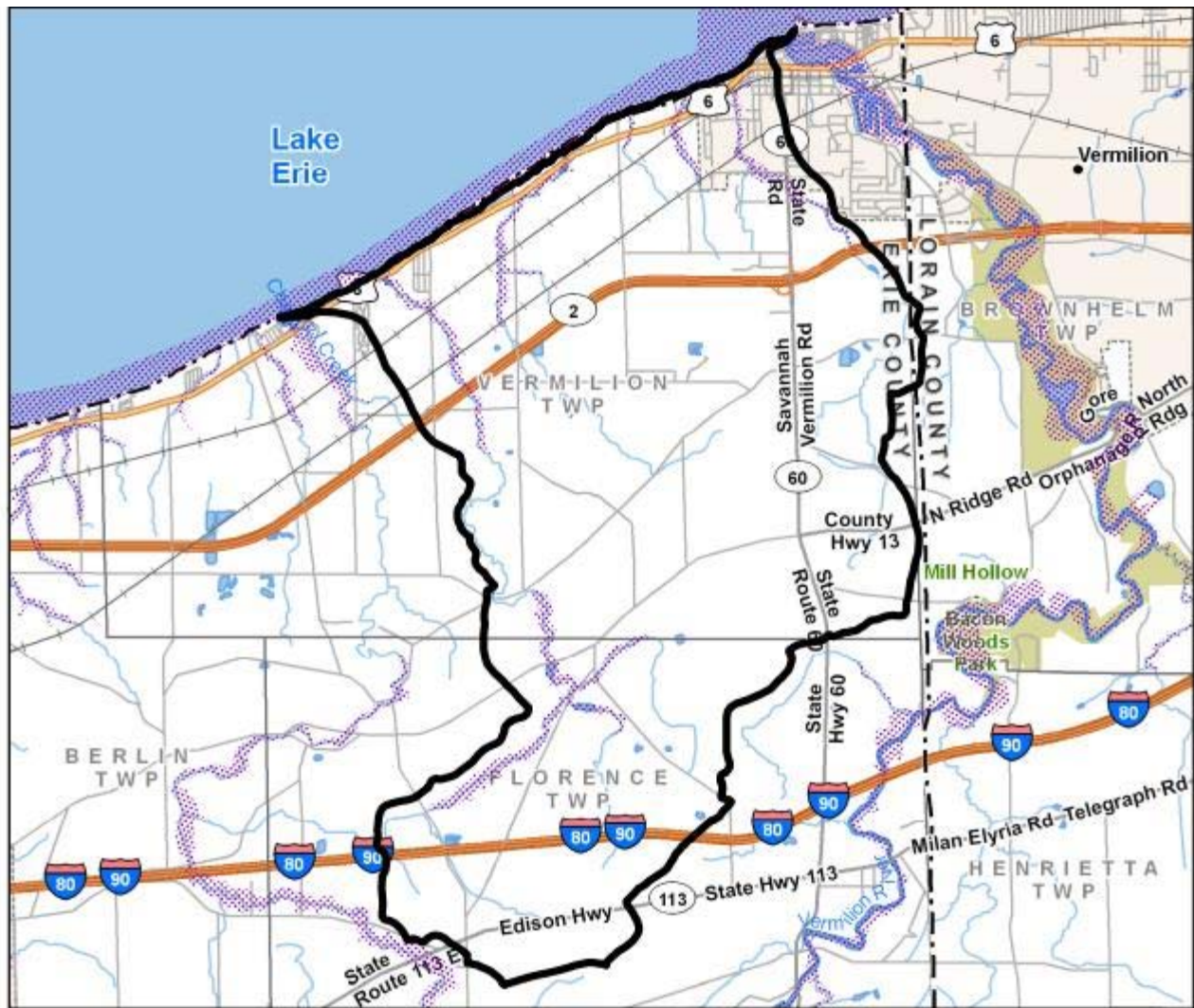
| Stream | Stream Segment Description | Aquatic Life Use Designation |
|--------------|----------------------------|------------------------------|
| Darby Creek | N/A | WWH |
| Sherod Creek | N/A | WWH |
| Sugar Creek | N/A | WWH |

Ohio EPA Stream Classifications

| | Miles |
|---|-------|
| Superior High Quality Waters | 0.0 |
| Primary Contact Recreation Class A Waters | 0.0 |
| Outstanding State Waters | 0.0 |

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Sugar Creek-Frontal Lake Erie Watershed Water Resources



Aquifer Vulnerability

- 160 - 179 (Moderately High)
- 180 - 199
- 200 - 300 (High)

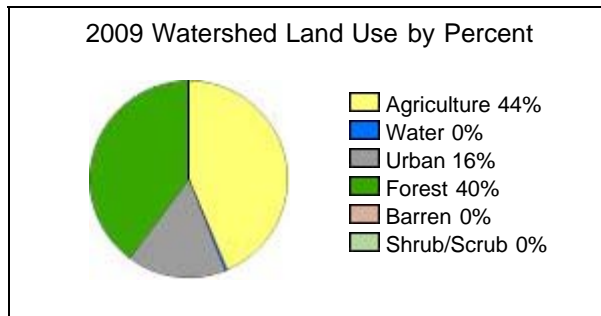
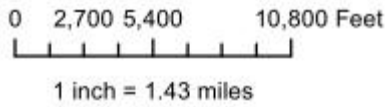
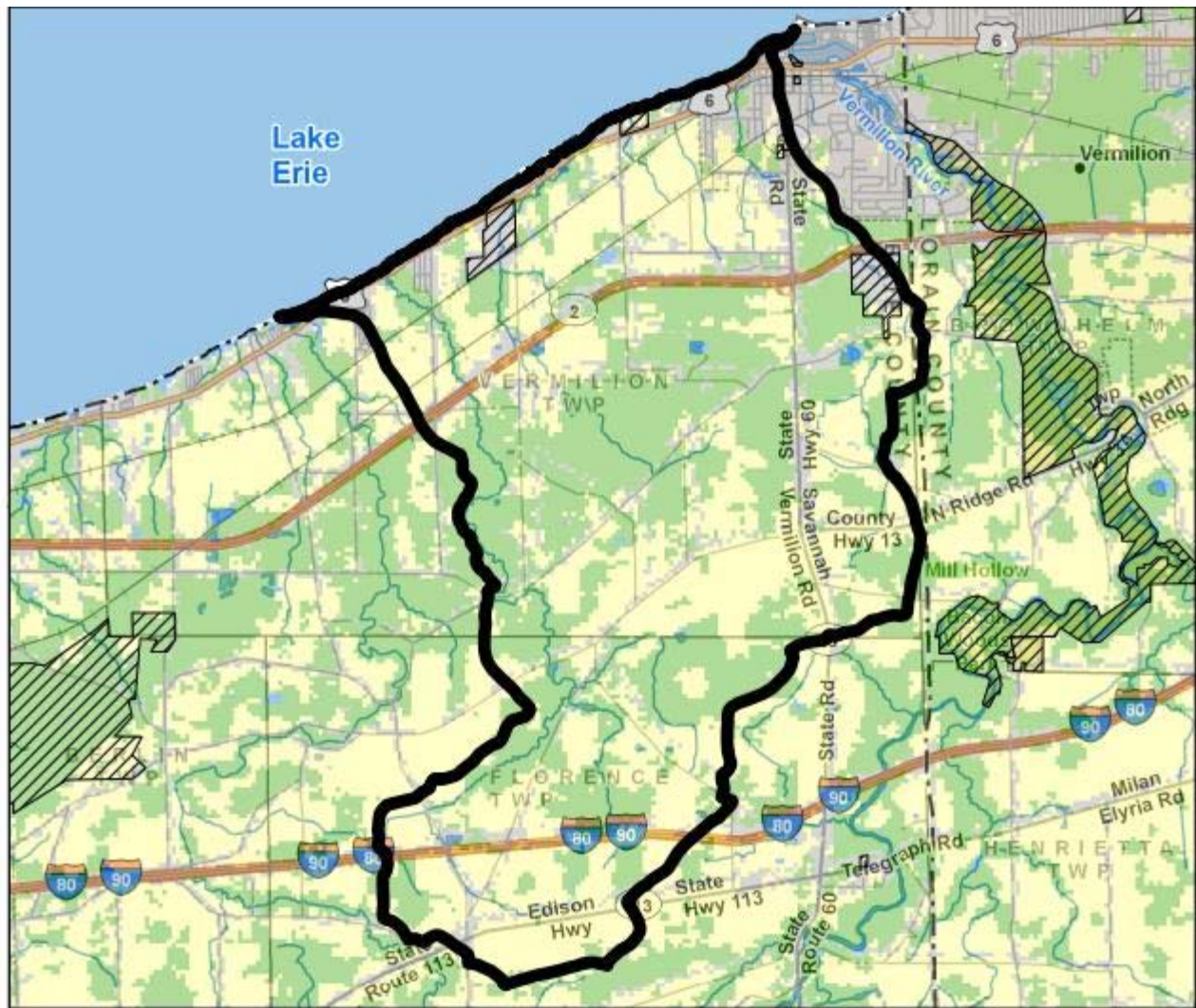
Aquatic Life Use Attainment


- Full
- Non
- Partial



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***Sugar Creek-Frontal Lake Erie
Watershed
Land Use***



 Conservation and Recreational Land

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