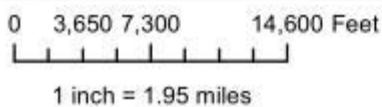
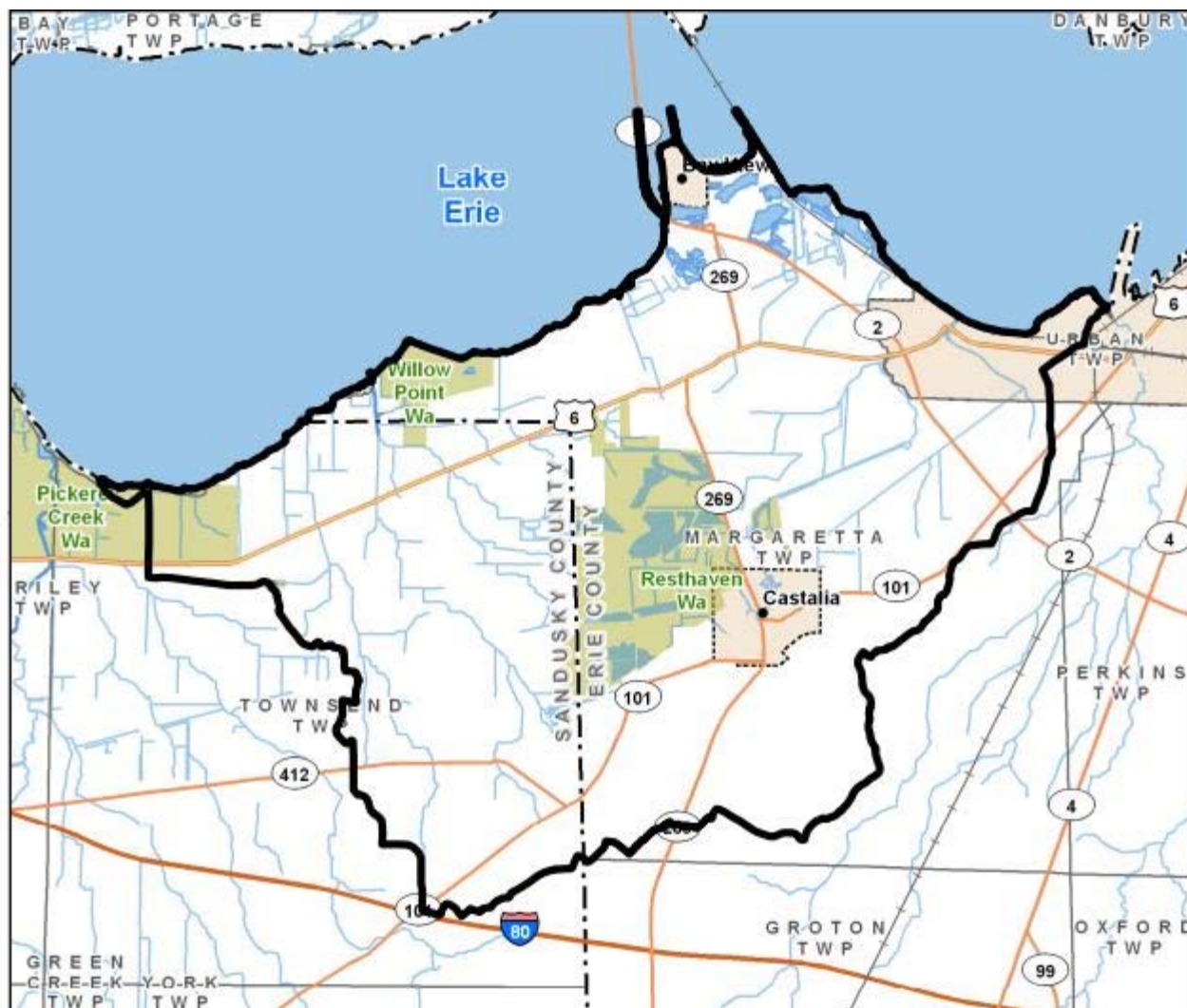


# *Frontal South Side of Sandusky Bay Watershed 041000110201*



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Frontal South Side of Sandusky Bay

Watershed: 27770.4 acres 43.4 square miles

Hydrologic unit code (12 digit): 041000110201  
 (old 14 digit): 04100011070010  
 04100011070020  
 04100011070030

Watershed Coordinator: Cindy Brookes  
 Email: cabrookes@wsos.org  
 Phone: 419-334-5016

Watershed Action Plan: N/A

[Sandusky River Website](#)

**Ohio EPA**

Aquatic Life Use attainment: Impaired needing TMDL

[TMDL Report \(Based on HUC 11 boundaries\)](#)

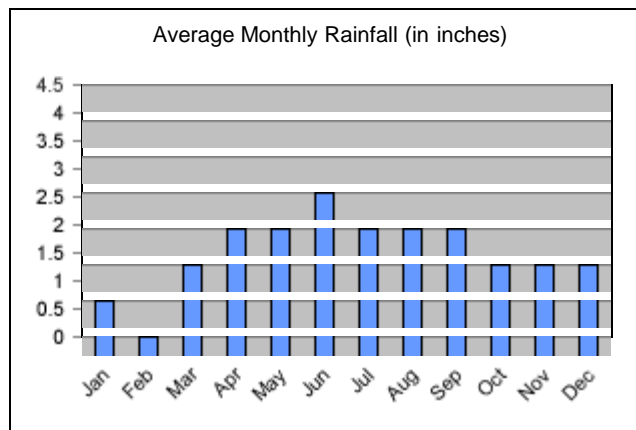
[Watershed Assessment Report](#)

**Climate**

Average annual maximum temperature: 56 F

Average annual minimum temperature: 12 F

Average annual Precipitation: 24 inches



***In the Watershed***

Soil and Water Conservation Districts

Erie 18066.5 acres  
 Sandusky 9642.7 acres

Municipalities

Bay View 172.5 acres  
 Castalia 641.5 acres  
 Sandusky 1198.5 acres

School Districts

Margaretta Local 26558.2 acres  
 Sandusky City 1179.0 acres

Area having Probable Karst features: 27807.9 acres

Bedrock: limestone, dolostone (dolomite), water

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**Census**

Population (reported by block)  
 1980: 10390    1990: 5261    2000: 5460

**Water Resources**

100 year floodplain: 3427.1 acres  
 Wetlands (2007): 4295.7 acres  
 Ponds & Lakes: 1642.6 acres  
 Streams & Rivers: 187.1 acres

People (reported by tract)

|                 |      |
|-----------------|------|
| Rural:          | 2931 |
| Urban:          | 2529 |
| Agricultural:   | 119  |
| In Labor Force: | 2846 |

Education (reported by tract)

|                              |      |
|------------------------------|------|
| Enrolled K-12:               | 1042 |
| Enrolled college:            | 153  |
| Completed <9:                | 2092 |
| Completed HS diploma or GED: | 1754 |
| Some college:                | 601  |
| Associates degree:           | 235  |
| Bachelors degree:            | 306  |
| Graduate degree:             | 141  |

Households (reported by tract)

|                 |          |
|-----------------|----------|
| Average Size:   | 2.6      |
| Average Income: | \$52,550 |

**Soil Resources**

|                       |               |
|-----------------------|---------------|
| Prime farmland:       | 21803.3 acres |
| Highly erodible land: | 467.6 acres   |
| Frequently flooded:   | 0.0 acres     |
| Hydric:               | 2540.5 acres  |
| Partially hydric:     | 20937.8 acres |

Soil Drainage

|                  |              |
|------------------|--------------|
| Well:            | 3458.6 acres |
| Moderately well: | 628.4 acres  |
| Somewhat poorly: | 6602.3 acres |
| Poorly drained:  | 150.5 acres  |

Hydrologic Soil Group

|      |               |
|------|---------------|
| A:   | 1200.7 acres  |
| B:   | 2625.4 acres  |
| C:   | 1581.7 acres  |
| D:   | 7274.1 acres  |
| A/D: | 2421.7 acres  |
| B/D: | 1270.8 acres  |
| C/D: | 10169.8 acres |

|  |               |
|--|---------------|
| Approximate number of water wells:                   | 310           |
| Area highly sensitive to groundwater contamination:  | 27749.9 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: 4015.4 acres

Resource Conservation Activities

BMP installation and land user assistance: 0.0 sites  
58.3 acres

Ohio EPA Approved bio-solid application fields: 1951.3 acres

Ohio EPA/ODA combined animal feeding operations and facilities: 0.0 acres

Ohio EPA NPDES industrial and municipal discharge permits: 6

Dams: 25

Pre-settlement vegetation:

- Elm-Ash Swamp
- Forests
- Mixed Oak Forests
- Freshwater Marshes and Fens
- Prairie Grasslands

Ecological region: Marblehead Drift/Limestone Plain

Land Use (acres)

|             | 2009    | 2001    | 1994    |
|-------------|---------|---------|---------|
| Agriculture | 14813.4 | 20897.8 | 19298.9 |
| Water       | 3560.0  | 3065.1  | 2823.9  |
| Urban       | 5835.1  | 1058.7  | 1010.8  |
| Forest      | 3311.2  | 2738.6  | 4148.3  |
| Barren      | 86.0    | 47.8    | 133.4   |
| Shrub/Scrub | 0.8     | 0.0     | 157.4   |

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9/28/2011

Watershed impairments (Ohio EPA)

| Causes                     | Sources                                      |
|----------------------------|--|
| cause unknown              | acid mine drainage                           |
| direct habitat alterations | natural                                      |
| natural limits             | pasture land                                 |
| nutrients                  | removal of riparian vegetation - agriculture |
| organic enrichment/DO      | source unknown                               |

Ohio EPA Aquatic Life Use Designation Miles

|                                     | Miles |
|-------------------------------------|-------|
| Coldwater Habitat (CWH)             | 35.7  |
| Exceptional Warmwater Habitat (EWH) | 0.0   |
| Warmwater Habitat (WWH)             | 5.2   |
| Limited Resource Water (LRW)        | 0.0   |

|           |   |
|-----------|---|
| pH        | streambank modification/destabilization - ag. |
| siltation | upstream impoundment                          |

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

### Ohio EPA Source Water intakes and Protection Areas

| System | # of intakes | Acres |
|--------|--------------|-------|
| N/A    | N/A          | N/A   |

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

| System                          | # of wells | 1 year (acres) | 5 year (acres) |
|---------------------------------|------------|----------------|----------------|
| Bloomville Village Pws          | 0          | 6921.4         | 0.0            |
| Lindsey-olds Funeral Home       | 0          | 6921.4         | 0.0            |
| Melmore United Methodist Church | 0          | 6921.4         | 0.0            |
| Republic Village Pws            | 6921       | 6921.4         | 0.0            |
| The Corner Restaurant           | 0          | 6921.4         | 0.0            |

### Ohio EPA Aquatic Life Use Designation

| Stream                     | Stream Segment Description             | Aquatic Life Use Designation |
|----------------------------|--|------------------------------|
| Cold Creek And Tributaries | all other segments                     | WWH                          |
| Cold Creek And Tributaries | Blue Hole to confluence with Lake Erie | CWH                          |
| Little Pickerel Creek      | N/A                                    | CWH                          |

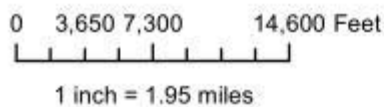
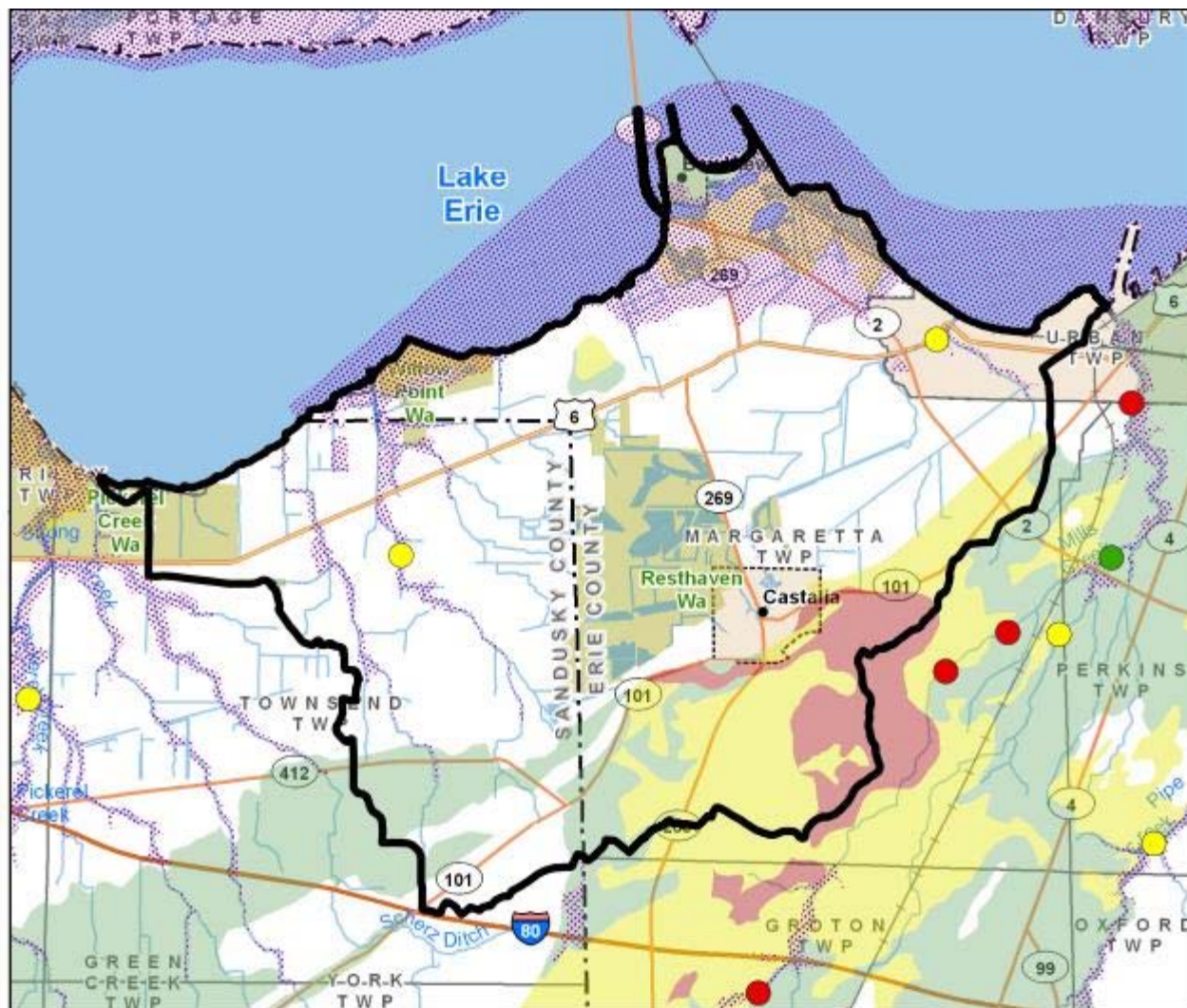
### Ohio EPA Stream Classifications

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

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## *Frontal South Side of Sandusky Bay Watershed Water Resources*



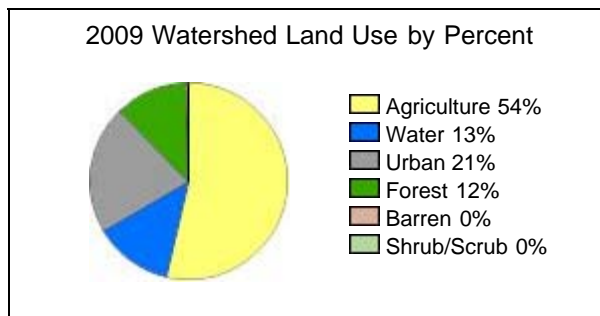
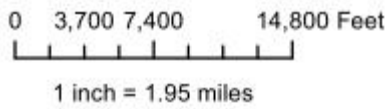
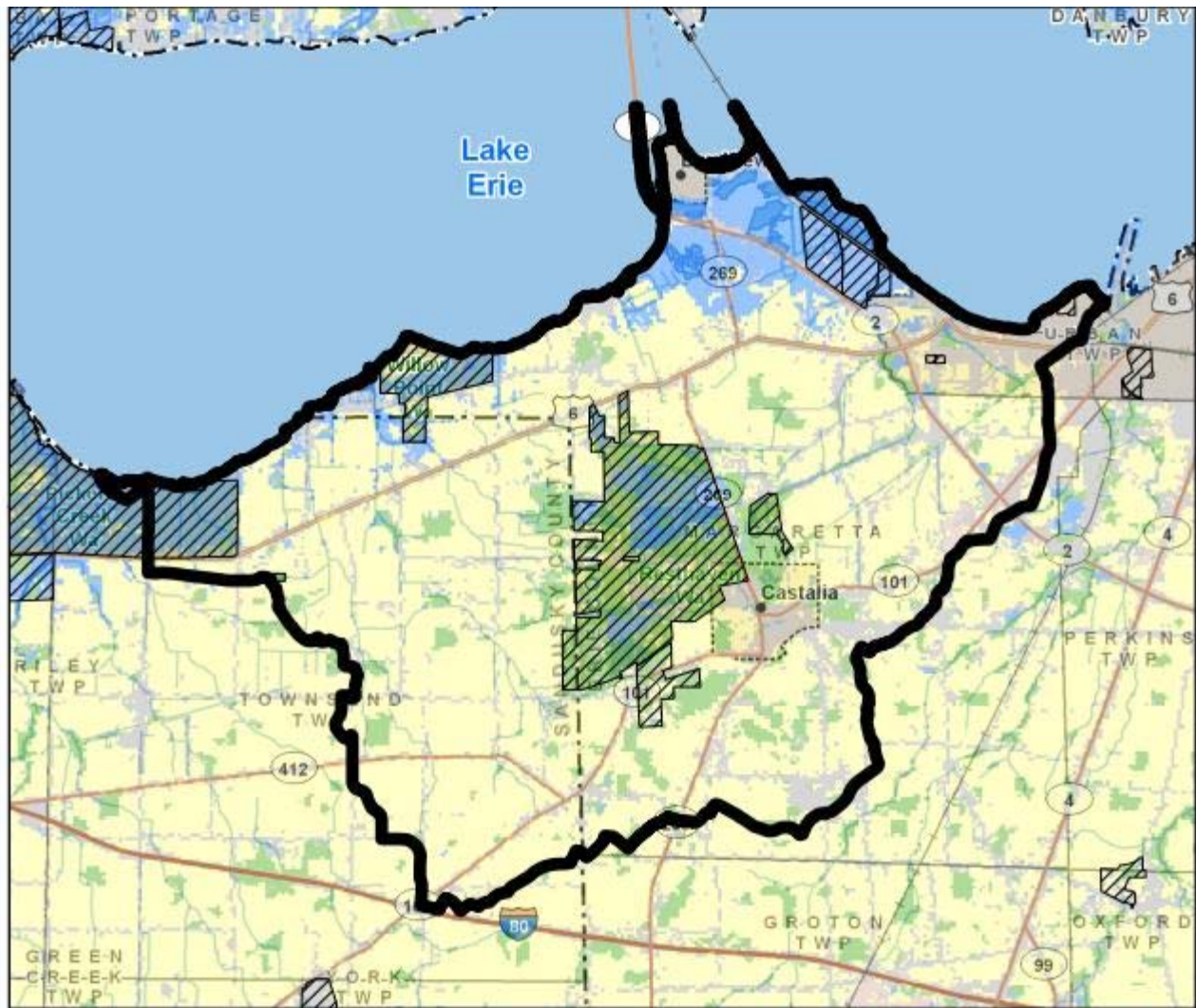


- |                              |                                    |
|------------------------------|------------------------------------|
| 100 Year Floodplain          | <b>Aquatic Life Use Attainment</b> |
| <b>Aquifer Vulnerability</b> | Full                               |
| 160 - 179 (Moderately High)  | Non                                |
| 180 - 199                    | Partial                            |
| 200 - 300 (High)             |                                    |



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## *Frontal South Side of Sandusky Bay Watershed Land Use*



Conservation and Recreational Land

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