# Lake Country: Where the River Begins

St. Joseph River Basin: Lake Michigan Watershed

There are 20 branches to the St. Joseph River.

Today I will focus on the headwaters of 2 of these branches: The Fawn River and Pigeon Creek in Steuben County, IN

http://www.sjrbc.com/



Potawatomi Inn

Boundary between Fawn River and Pigeon Creek Watersheds





1876 Steuben County Map



Mill Ponds Jamestown Nevada Mills

Pigeon Creek

## Pleasant Lake 1880

#### Located on the Lake Shore Railroad



"A popular resort, having a fine, large, improved park in the village and on the lake with good hotel accommodations."



Fig.7. Map of

A commercial size deposit in 1898 was considered to be 10 feet deep and 160 acres in size.







The Pigeon Creek Dredge

"The dredge boat is twenty feet wide and eighty-four feet long. Two 25-horse power engines will provide power for the outfit, which will include 25 light dynamo that will supply the necessary light.

The cook boat containing the cooking outfit, dining room and sleeping quarters ... will trail behind the dredge.

A coal boat will also be necessary to carry the fuel."

> Steuben Republican January 7, 1903



#### Pigeon Creek near Flint

Pigeon Creek or the George Shrimplin Regulated Drain

Area of former

Mill Pond

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Farmed hydric soils of original Pigeon Creek



4/23/2017

Farm area along Pigeon Creek 1938



Pigeon Creek

Farm area along Pigeon Creek 2017



On the Peat Deposits of Northern Indiana 1907 Taylor, A.E.

This survey was done to locate peat as a fuel source to replace wood. The forests had been nearly all cut down.



"It is an outrage that many of our fine lakes are being ruined by the insatiable desire to obtain more acres to be farmed.... So prevalent has become the practice of draining the lakes that it is a true relief to find one that has not been subjected to ditching and stands today as it stood ages and ages ago."

Indiana Fisheries Report of 1913-1914



In the 1920s Indiana started to establish State Parks.

The citizens of Steuben County donated 535 acres to state for a park.



POKAGON STATE PARK

1938

Civilian Conservation Corp barracks

The CCC did most of the early construction from 1934 to 1942.



Marsh Lake

Seven Sisters Lakes



## Lake Preservation Act of 1947

- It gave the State "full power and control of all of the public freshwater lakes in Indiana" and provided the State "holds and controls all public freshwater lakes in trust for the use of all of the citizens of Indiana for recreational purposes." I.C. § 14-26-2-5(d).
- Provided for the establishment of legal lake levels.

I.C. § 14-26-4-9.



## Feick's Point Area 1938

Feick's Point 1<sup>st</sup> & 2<sup>nd</sup> Additions, Blue Heron Wetlands, Former Restaurant Property, Water's Edge Place 1<sup>st</sup> & 2<sup>nd</sup> Additions, Whisper Bay Condos, Rolling Hills, Sunny Shores, and Potawatomi Acres



## 1972 The Clean Water Act, The Clean Air Act, and the **Steuben County Lakes Council**

*The Steuben Lakes Regional Waste District* (SLRWD) *was* established in 1975 as Cluster Systems for critical areas around the lakes. In 2005 it expanded to a central treatment system at cost of \$46.1 million. Other lakes joined in 2006 and 2010. Currently the district is in the process of a 12.5 million dollar expansion and upgrade.

Most all customers are in the Fawn River Watershed but the STP effluent discharges into Pigeon Creek.

"For more than 40 years, we have been dedicated to water quality management in our region. The SLRWD serves approximately 5,000 residential and business customers and is dedicated to protecting the Pigeon River & Fawn River watershed - and our way of life - for generations to come." <u>https://slrwd.org/</u>

#### **Trophic Conditions of the Steuben County Lakes**





For the past 11 years the Lakes Council has funded 46 sample sites within the two watersheds. This data was used as important information in the development of the Pigeon Creek Watershed Management Plan of 2014 and the Fawn **River Watershed Management Plan of** 2015.





Z W 100 N

) 38 Lake George NE Trib. 6.9

22 Walter's Lakes Drain

21 Follet OreekhLittlko

W 400 t

W 300 N

W 100 N

Wetlands

State Fish and Wildlife Area

Stokes Rd

E 660 N

) 19 Crane

827)

(827)

(827)

E 200 N

Map data ©2017 Google

E 300 N

#### Pigeon Creek Phosphorus mg/L 2017-18 averages



#### Pigeon Creek E. coli CFU/100 ml 2017-18 averages



## Water use continues to change

In 2012 the Pigeon Creek and Fawn River watersheds had 46 agricultural irrigation wells.

2012 was considered the worst drought in 30 years.

46 new irrigation wells were added the next year.

Since 2013 another 30 wells have been drilled.





Metz Road

Constructed Lakes, Ponds and Wetland Restoration

Hanselman Road

Lawsuits filed in several states have obtained injunctions against EPA's proposal under the revised definition of "Waters of the United States" (84 FR 4154; Docket ID No. EPA-HQ-OW-2018-0149)



April 16 (Reuters) - Fourteen states, including New York and California, and the District of Columbia said the Environmental Protection Agency's proposal to replace an Obama-era water regulation would end federal protection for half of wetlands and 15 percent of streams across the country.

A group of 17 states, led by West Virginia, sent a separate letter to the EPA and the Army Corps of Engineers supporting the EPA's plan to update the Waters of the United States rule, saying it would provide relief to landowners and farmers.

# Garbage clogs Bosnia rivers amid neglect

VISEGRAD, Bosnia-Herzegovina (AP) — Plastic bottles, rusty barrels and even old washing machines are among tons of garbage clogging rivers in Bosnia that were once famous for their emerald color and crystal clear waters adored by rafters and adventurers as well as fishermen.

Journal Gazette May 2, 2019

### Change is going to continue!

"The 11-county Northeast Indiana regional region's population is now 784,805; if the population continued to increase by last year's rate, it would reach 840,000 11 years from now – still short of the partnership's target of one million.

Development advocates say that should just make us work harder to distinguish our region from others by emphasizing job opportunities, affordable living and quality-of-life opportunities." Journal Gazette 4/23/2019

The St. Joseph River Basin's water resources will continue to play an integral part in its quality-of-life opportunities.