## This document is meant to be viewed on your computer, not printed on paper.

Please spare your ink supply by not printing this document.

## Understanding Watersheds

Watersheds describe areas where water is draining to... they are also known as drainage divides. While an area may have a specific name such as region or basin, they can all be referred to generically as: Watershed.

Since there are multiple levels of watersheds, watersheds are classified by the USGS with a HUC or Hydrolic Unit Code.

As the area being described gets smaller, the HUC gets larger.

For example:

All of the water running into the White River throughout Indiana is in a watershed known as Patoka, White River Basin – this area is described as a 6-digit watershed.

All of the water running into the Prairie Creek Reservoir is in a watershed known as a Subwatershed – this area is described as a 12digit watershed.

This slide show will take you through the various levels of Indiana's watersheds to ultimately illustrate the subwatersheds of Delaware County.

Great Lakes Region

Upper Mississippi Region

## Ohio River Region

Indiana has area in 3 2-digit watersheds known as Water Resource Regions

Great Lakes Region HUC 04

Upper Mississippi Region HUC 07

> Delaware County

Ohio River Region HUC 05

> Indiana has area in 3 2-digit watersheds known as Water Resource Regions

Jpper Mississippi

HUC 07

Great Lakes Region HUC 04

Delaware County

Ohio River Region HUC 05

> Delaware County is in the 2-digit watershed known as the **Ohio River Region**

Upper Mississippi Region Great Lakes Region



Ohio River Region

> Delaware County is in the 2-digit watershed known as the **Ohio River Region**



**Ohio River Region** 

Wabash **River Basin Subregion** 

Lower Ohio River

Basin Subregion

Delaware County

> Great Miami **River** Basin Subregion

**Middle** Ohio **River** Basin **Subregion** 

The Ohio River Region consists of 4 4-digit watersheds known as Subregions

Wabash **River Basin Subregion** HUC 0512

Lower Ohio River

Basin Subregion

HUC 0514

Delaware County

> Great Miami **River Basin** Subregion HUC 0508

**Middle Ohio River** Basin **Subregion** HUC 0509

The Ohio River Region consists of 4 4-digit watersheds known as Subregions Wabash River Basin Subregion

> Delaware County is in the 4-digit watershed known as the Wabash River Basin Subregion

Delaware

County

Midd

River

Wabash River Basin Subregion

> Delaware County is in the 4-digit watershed known as the Wabash River Basin Subregion

Delaware

County

## Wabash River Basin

Wabash River Basin Subregion

Patoka, White River Basin

The Wabash River Basin Subregion contains 2 6- digit watersheds known as **Basins** 

Delaware

Wabash River Basin HUC 051201

> Delaware County

Patoka, White River Basin HUC 051202

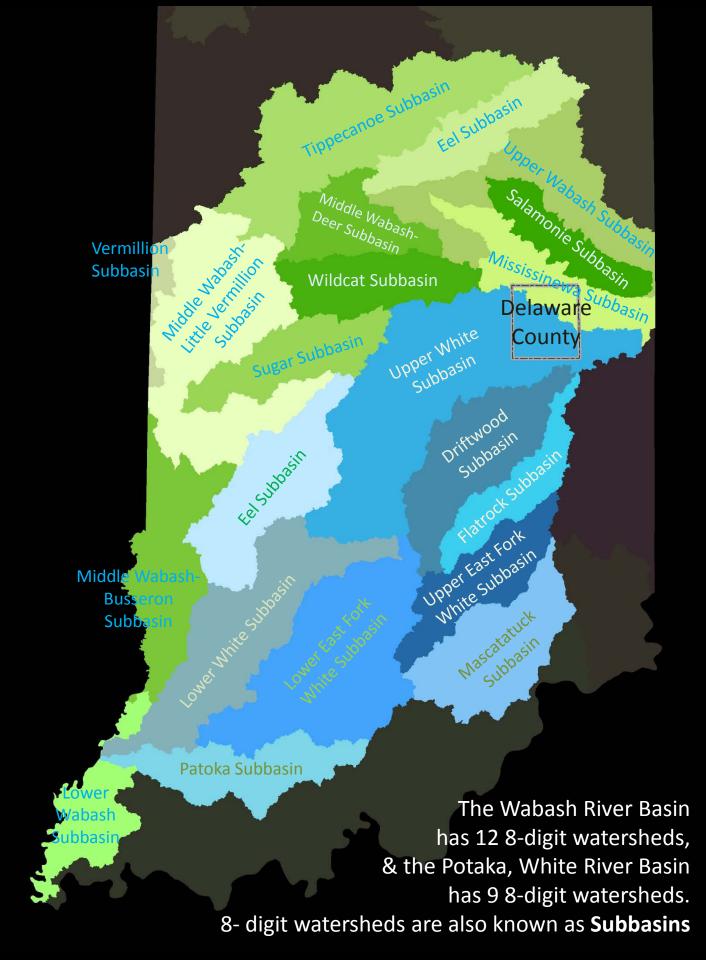
> Delaware County is in both 6- digit watersheds – the **Wabash River Basin** & the **Potaka, White River Basin**

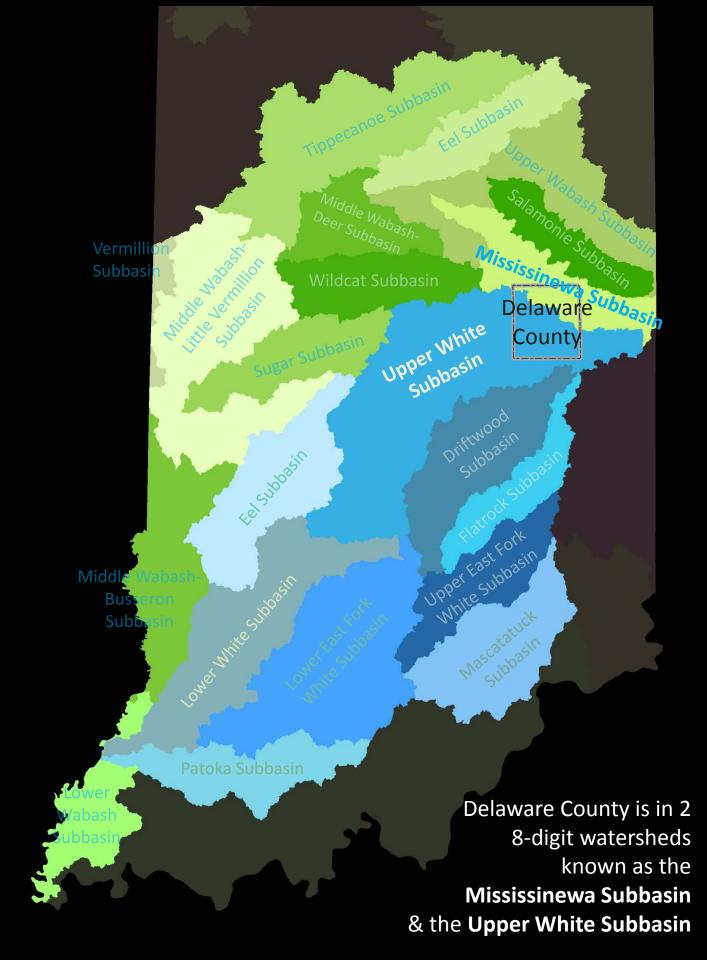
Wabash River Basin HUC 051201

> Delaware County

Patoka, White River Basin HUC 051202

The Wabash River Basin has 12 8-digit watersheds, & the Potaka, White River Basin has 9 8-digit watersheds. 8- digit watersheds are also known as **Subbasins** 





Delaware County is in 2 8-digit watersheds known as the Mississinewa Subbasin & the Upper White Subbasin

Mississing

Upper White

Subbasin

Delaware

County

bbasin

Mississinewa Subbasin HUC 05120103 Delaware County

Upper White Subbasin

Delaware County is in 2 8-digit watersheds known as the Mississinewa Subbasin & the Upper White Subbasin

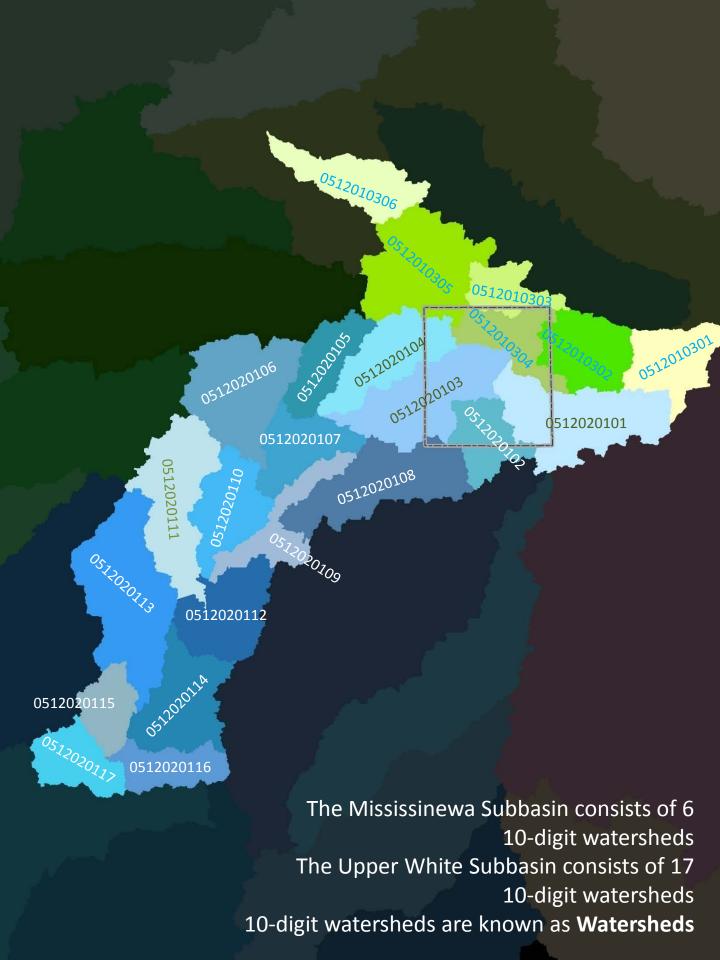
512010 Delaware County

Upper White Subbasin

HUC 05120201

Mississinew

The Mississinewa Subbasin consists of 6 10-digit watersheds The Upper White Subbasin consists of 17 10-digit watersheds 10-digit watersheds are known as Watersheds



Delaware County is in 4 of the Mississinewa Subbasin's 10-digit watersheds & 5 of the Upper White Subbasin's 10-digit watersheds

0512010

0512020

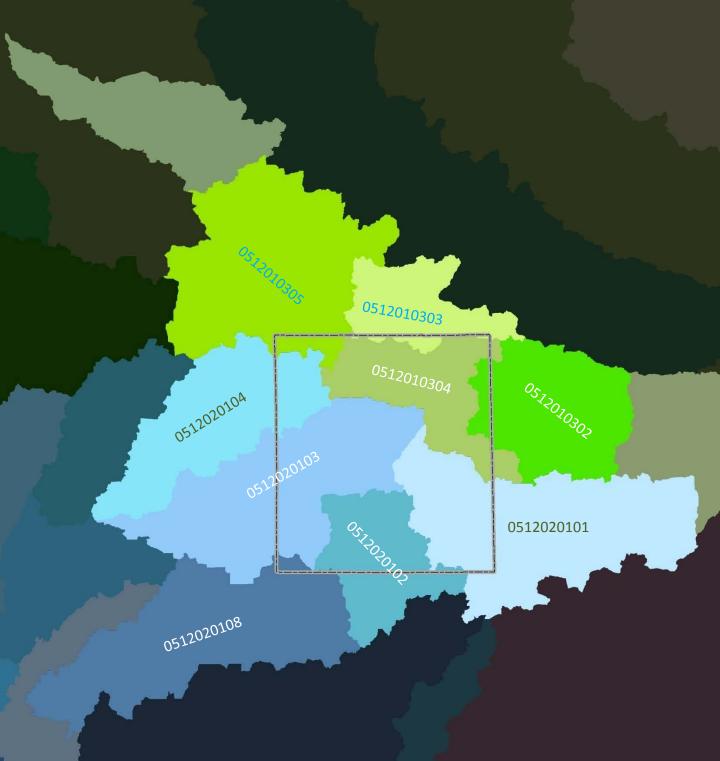
رە

0512020101

0512020104

0512020108

0512020103



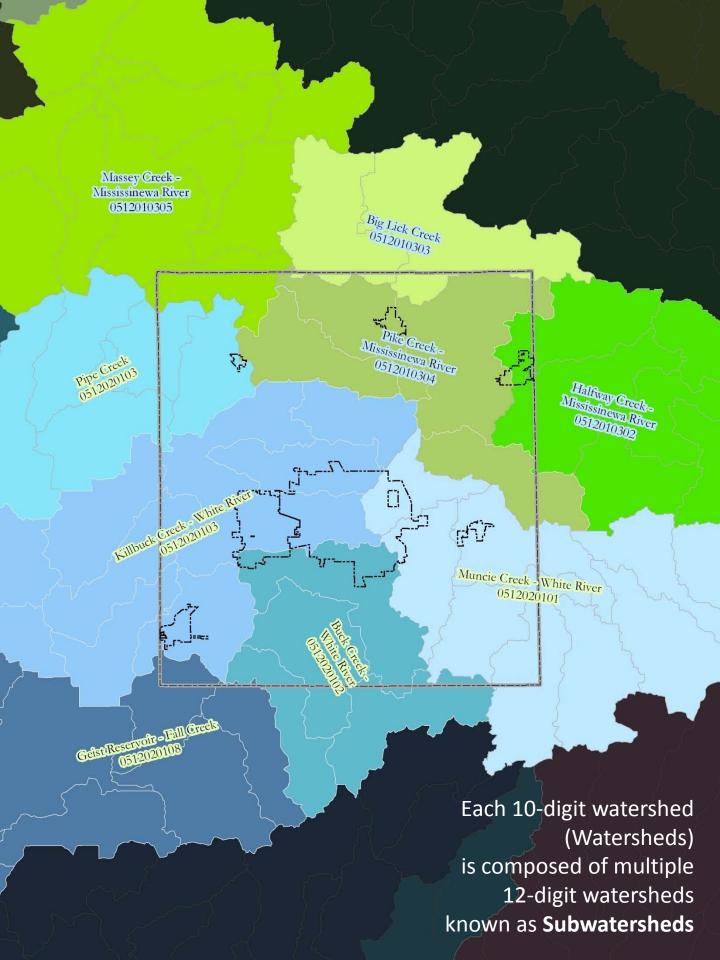
Delaware County is in 4 of the Mississinewa Subbasin's 10-digit watersheds & 5 of the Upper White Subbasin's 10-digit watersheds

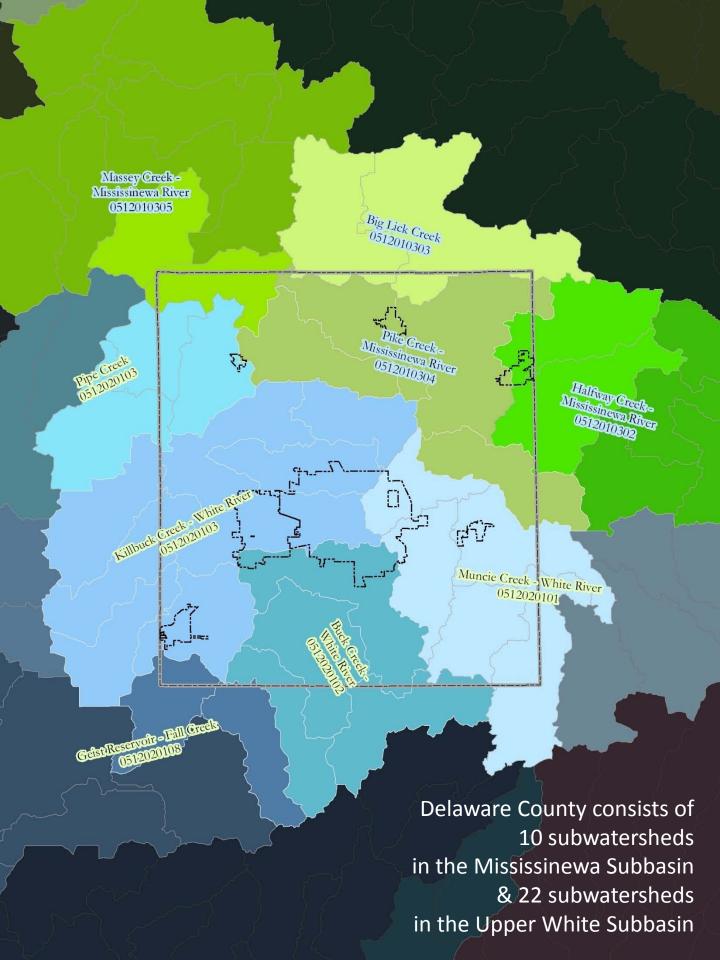


Delaware County is in 4 of the Mississinewa Subbasin's 10-digit watersheds & 5 of the Upper White Subbasin's 10-digit watersheds



Each 10-digit watershed (Watersheds) is composed of multiple 12-digit watersheds known as **Subwatersheds** 





Sodk Creek - Buck Creek Creek Delaware County consists of 10 subwatersheds in the Mississinewa Subbasin & 22 subwatersheds in the Upper White Subbasin

Townsand Lucas Ditch - Big Lick Creek

Holden Ditch

Mud Creek -Killbuck Creek

River Macedonia Creck, Buck Creck

Ao Alano Galek

· Bell Greek

SchellBrook - Bell Creck

Hanilton Dieds

ICreek

White River Truitt Ditch

Prairie Greek

Prairie Greek Reservoir

Mississinewa River

Studenbaker Ditch

- Pike Creek

Jakes Greek

York Prairie Creek - White River

Baren Greek

Pipe Greek Stem Run

Poleos Creck -Pile Creek

Linde Killands Greek

NoonBrach - Ellower Creek

Lukey of the Bires

Hoppas.Ditch.-Mississinewa River

Veger Finley Menard Dirch

· Pipe Greek

Thruston Dirch - Killbuck Greek

5

Hoeny Gree

Storn Spice Dich

519 Forts

Circlick Greek - Big Lick Creek

Redkey Run-

Plan Athargen Dirche aussionera Rice

.

Mud Creek - White River

Creek

Stones

Campbell Greek

Halfway Creek

Mississinewa River

Rees Dirch -

The White River Watershed Project is a community led project created to help reduce non-point source water pollution in Delaware County by developing and implementing watershed management plans

 $\square$ 

(f)

The White River Watershed Project includes the 5 highlighted subwatersheds: Mud Creek-Killbuck Creek, Hamilton Ditch-Muncie Creek, Truitt Ditch-White River, Prairie Creek Reservoir-Prairie Creek, & Macedonia Creek-Buck Creek subwatersheds

2

....

Mud Creek -Killbuck Creek

Macedonia Creek

(HT)

Prairie Creek

Prairie Greek Reservoir

White River Truitt Ditch .

Buck Creek

Now, hydrography (the mapping of surface waters) will be added to the maps so that you can see where the water originates from and where is it flowing to...

Subwatersheds

Inditional states and states and

Szamonte River

¢.

f T

۲-----۲-۲-۱

. White Rives

57

a.

-

[]

Wississ inews River

Subwatersheds

Internet and the second s

Szamonte River

¢.

1-1

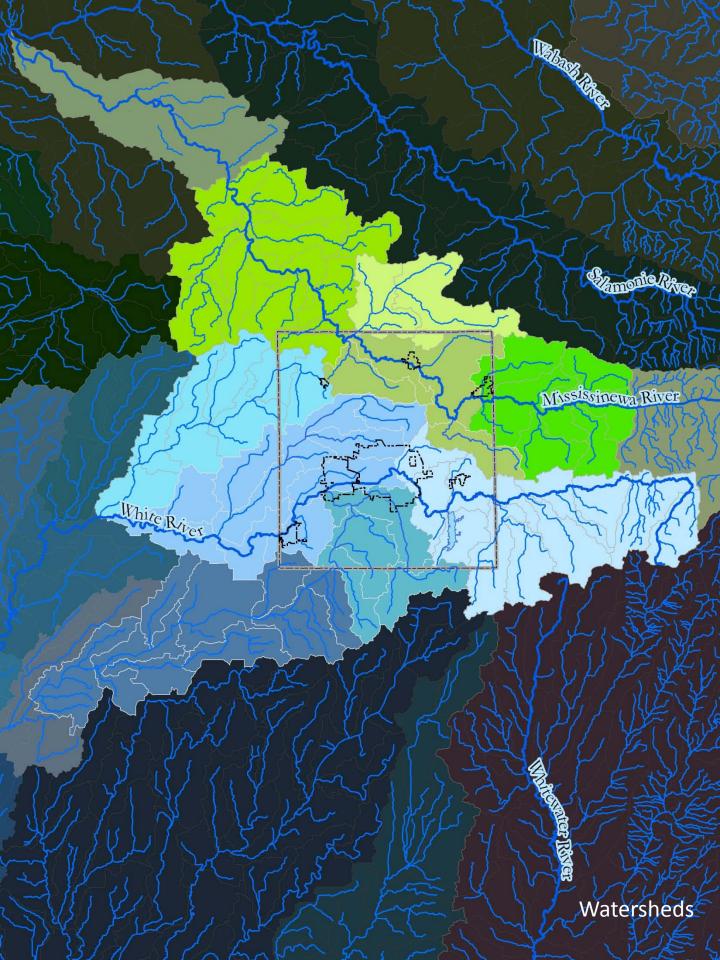
White Rives

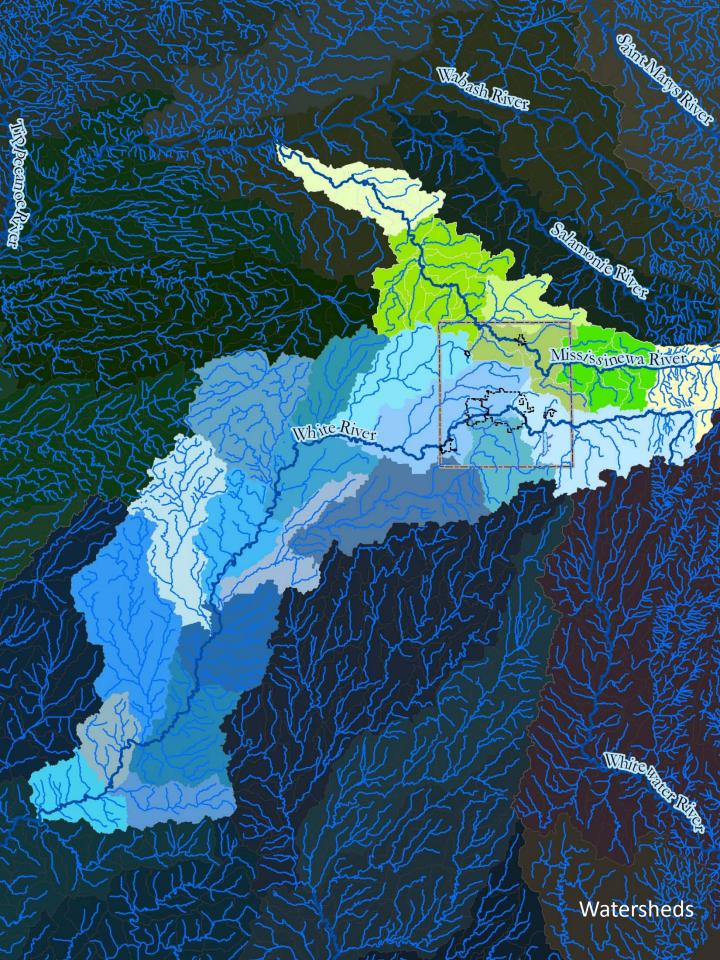
[]

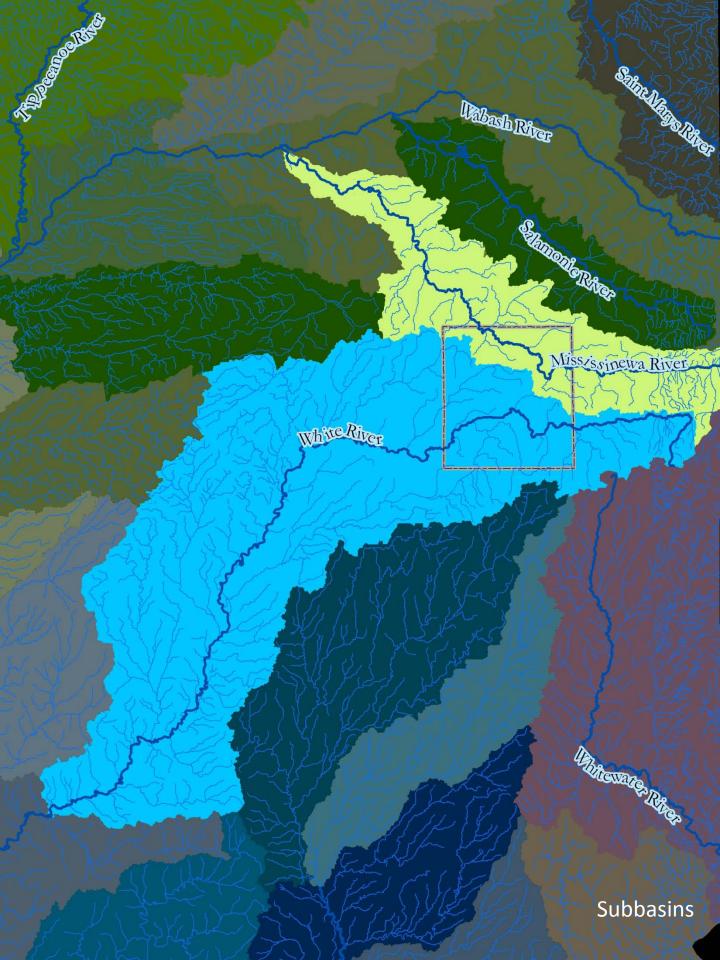
12 J

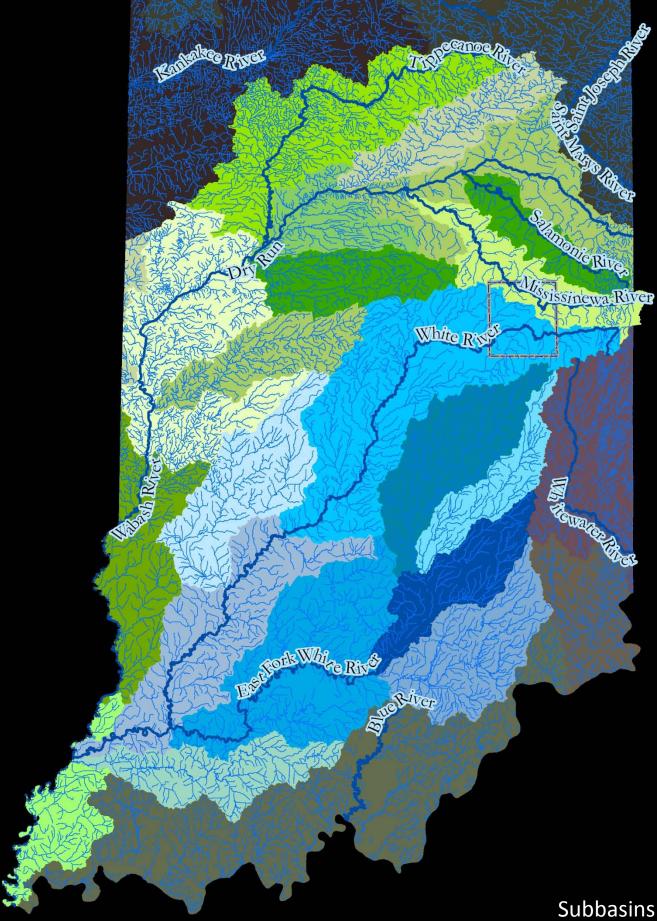
fr:

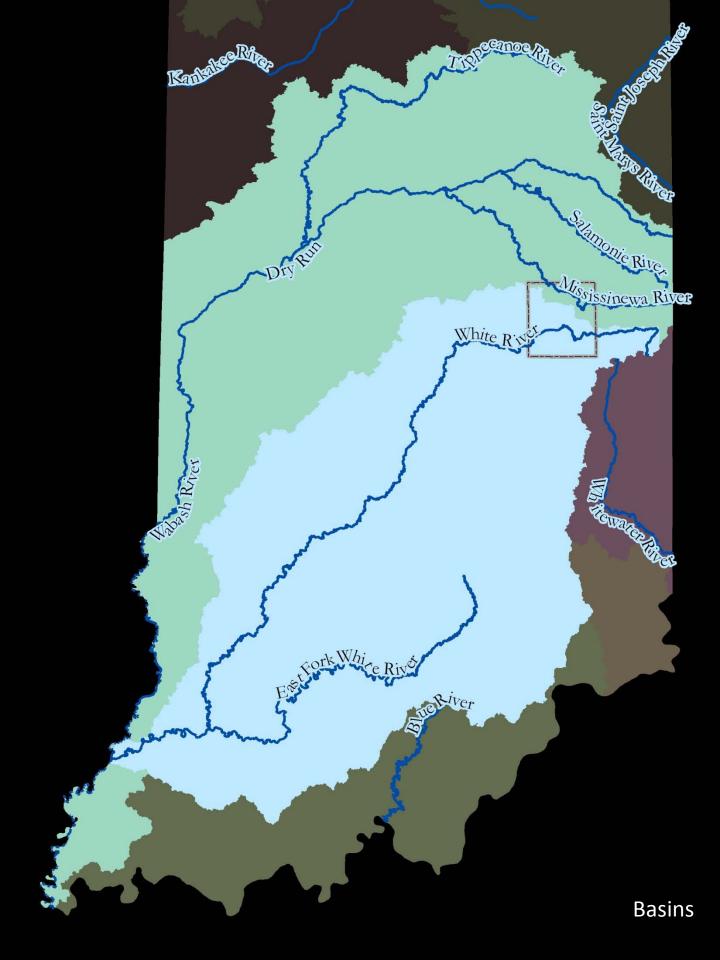
Wississinew? River

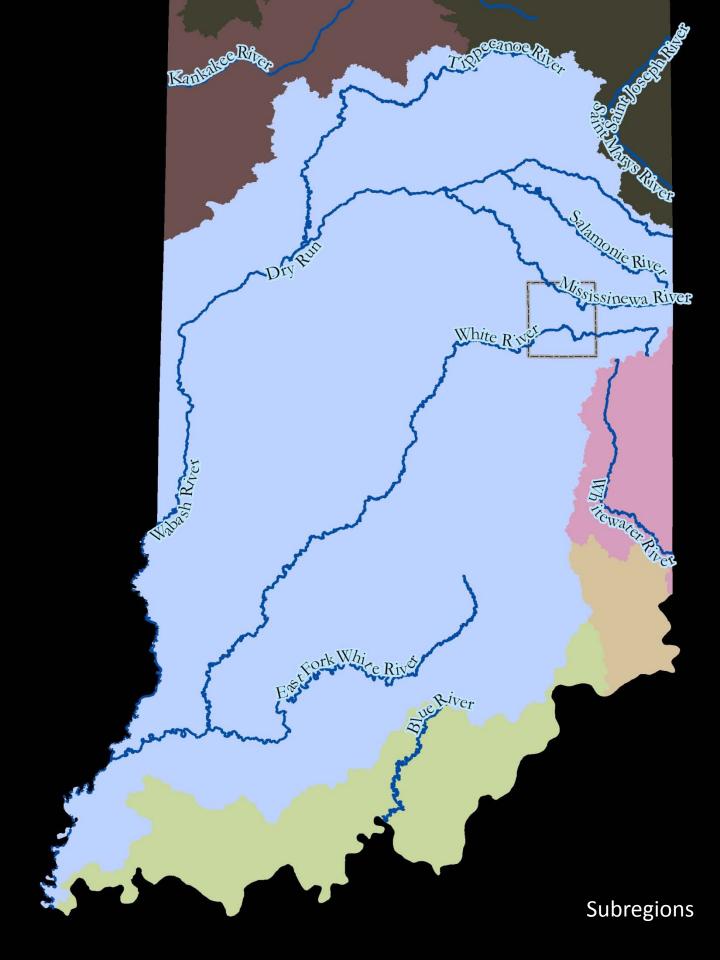


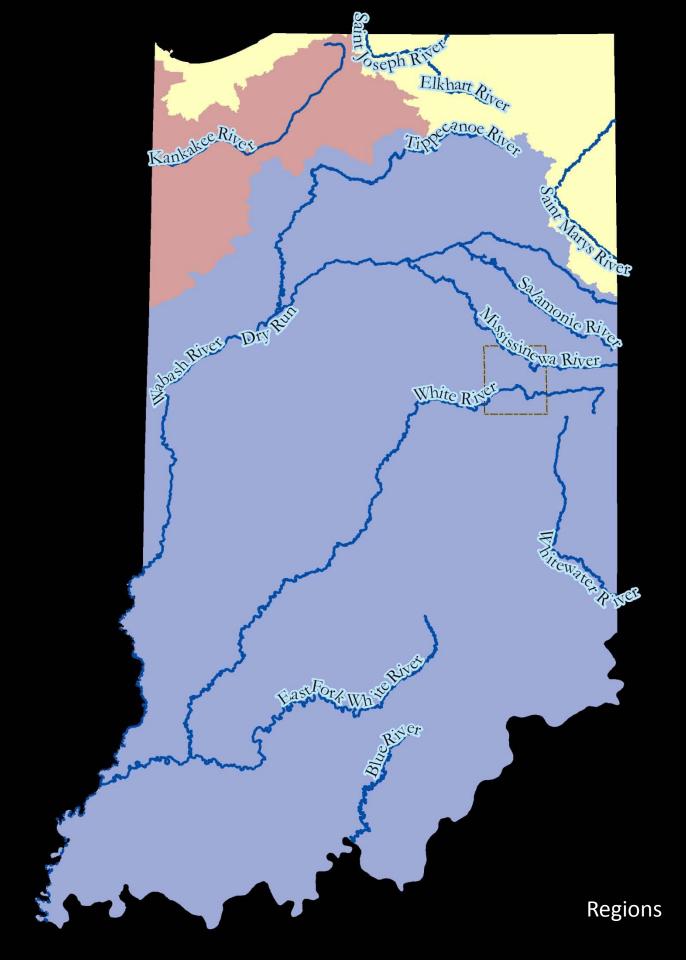












I hope this document has been beneficial in helping you understand watersheds and the various levels of watersheds.

If you have further questions, or have recommendations for improving this document, please feel free to email its author at Istinton@co.delaware.in.us

Thanks!