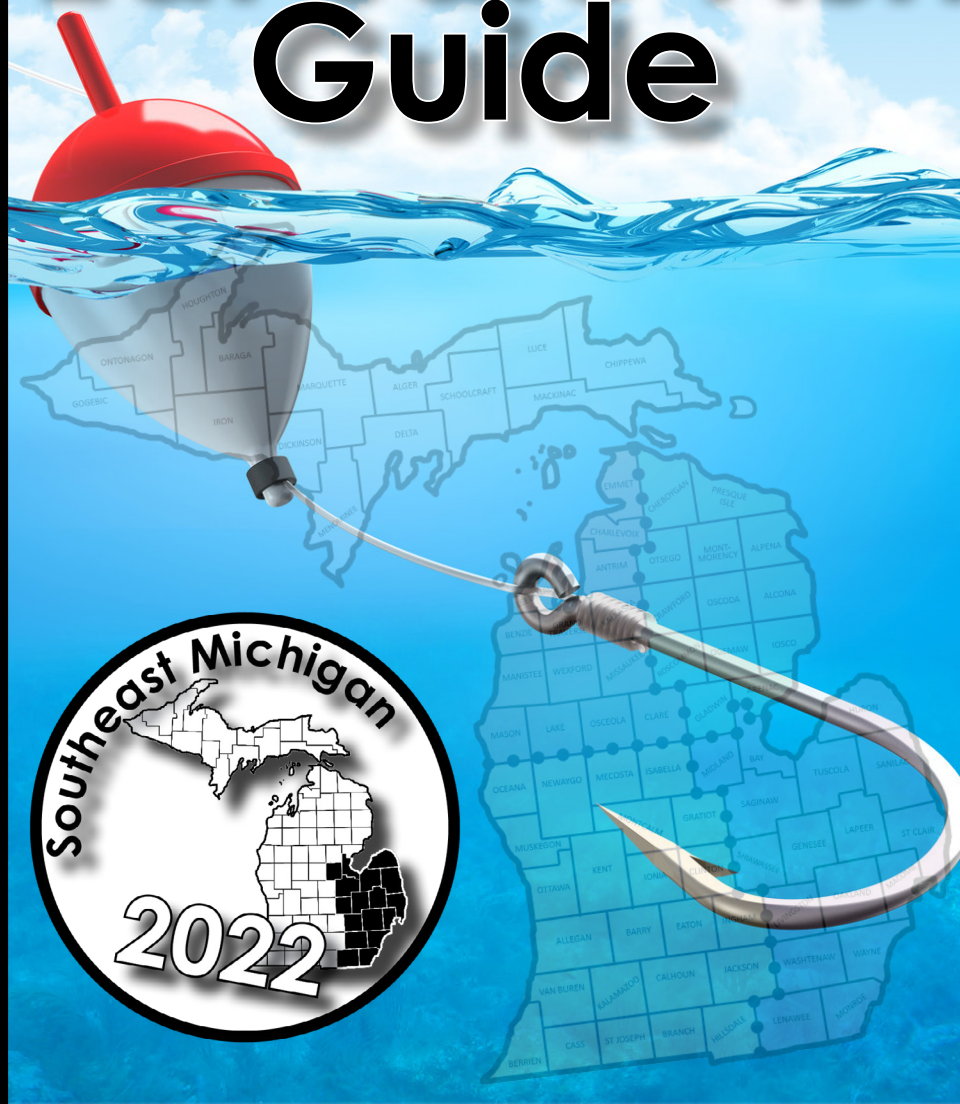


Michigan Department of Health and Human Services'

# Eat Safe Fish Guide



Some fish contain chemicals that can harm your health. MDHHS tests filets of fish taken from Michigan's lakes and rivers to learn which fish are safer to eat. The *Eat Safe Fish Guide* lists the fish that have been tested and how much is safe to eat.



# Inside the Guide

<b>About the Guide .....</b>	<b>5</b>
Michigan DNR Fishing Laws.....	5
Questions About Eating Safe Fish? .....	5
<b>Choosing Safer Fish .....</b>	<b>6</b>
My Michigan, MI Serving Size .....	6
How much is a MI Serving? .....	6
Are you pregnant?.....	6
<b>Special MI Serving Categories.....</b>	<b>7</b>
<b>Get to know the 3Cs.....</b>	<b>8</b>
<b>Statewide Safe Fish Guidelines .....</b>	<b>9</b>
<b>Frequently Asked Questions (FAQs) .....</b>	<b>10</b>
<b>Common Michigan Fish.....</b>	<b>12</b>
<b>Fish Eating Guidelines by County .....</b>	<b>14</b>



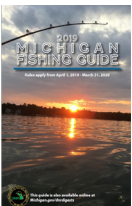
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# About the Guide

The *Eat Safe Fish Guide (ESF Guide)* is provided by the Michigan Department of Health and Human Services (MDHHS).

- The fish listed under each lake or river in the *ESF Guide* have been tested for chemicals.
- Scientists from MDHHS test ONLY the filet of the fish — the part that you would eat — to determine the guidelines included in the ESF Guide.
- MDHHS uses the test results from the fish filets to find the average amount of chemicals in the fish species from that lake or river. They use this information to determine how much fish is safe to eat per month.
- The *ESF Guide* is not a rulebook. These are only guidelines to help you make safer choices for you and your family. You are not required to use it.
- The *ESF Guide* does not include rules and regulations about catching or keeping legally-sized fish.
- The *ESF Guide* provides advice for the size range of fish that are typically caught and eaten.

## Michigan DNR Fishing Laws



You should get a copy of the *DNR Michigan Fishing Guide* when you purchase your fishing license. If you lost your *Fishing Guide* or have other questions about fishing legally, please call the Michigan Department of Natural Resources at 1-517-373-1230 or visit [Michigan.gov/fishing](https://Michigan.gov/fishing).

## Questions About Eating Safe Fish?

If you have questions about choosing safer fish to eat or would like the *ESF Guide* for another region, please call the Michigan Department of Health and Human Services at 800-648-6942 or visit [Michigan.gov/EatSafeFish](https://Michigan.gov/EatSafeFish).



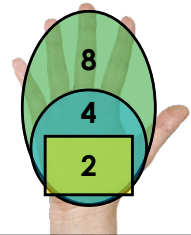
# Choosing Safer Fish

The guidelines in the *ESF Guide* are set to be safe for everyone. **This includes children, pregnant or breastfeeding women, and people who have health problems, like cancer or diabetes.**

But the *ESF Guide* is also for healthy adults who want to avoid getting too many chemicals in their bodies. PCBs, dioxins, and PFOS (a specific PFAS) are linked to cancer and other illnesses. Mercury can cause damage to your brain and nerves. MDHHS uses chemical limits in the *ESF Guide* that will protect everyone who eats fish.

## My Michigan, MI Serving Size

- ☒ 8 ounces of fish = size of an adult's hand (large oval)
- ☒ 4 ounces of fish = size of the palm of an adult's hand (small circle)
- ☒ 2 ounces of fish = size of half a palm of an adult's hand (rectangle)



## How much is MI Serving?

Weight of Person	MI Serving Size
45 pounds	2 ounces
90 pounds	4 ounces
180 pounds	8 ounces

**Weigh Less?**

**For every 20 pounds less than the weight listed in the table, subtract 1 ounce of fish.**

For example, a 70 pound child's *MI Serving size* is 3 ounces of fish.

90 pounds - 20 pounds = 70 pounds

4 ounces - 1 ounce = a *MI Serving size* of 3 ounces

**Weigh More?**

**For every 20 pounds more than the weight listed in the table, add 1 ounce of fish.**

For example, a 110 pound person's *MI Serving size* is 5 ounces of fish.

90 pounds + 20 pounds = 110 pounds

4 ounces + 1 ounce = a *MI Serving size* of 5 ounces



**Are you pregnant?**

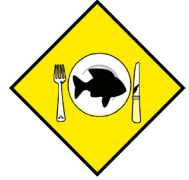
Fish is good for you and your baby! Use your pre-pregnancy weight to find your *MI Serving size*. It is best to avoid eating fish labeled as "Limited" if you're pregnant or breastfeeding.

## Special MI Serving Categories

### Limited

If you:

- are under the age of 15,  
-or-
- have health problems, like cancer or diabetes,  
-or-
- might have children in the next several years, are currently pregnant, or are breastfeeding,



MDHHS suggests you **avoid eating all fish listed as “Limited”** because of higher levels of chemicals.

If **NONE** of the above apply to you, it is usually OK to eat fish listed as “Limited” **1 or 2 times each year**.

### Do Not Eat

**No one should eat fish listed as Do Not Eat, regardless of age or health.**

When these fish were tested, MDHHS found very high levels of chemicals. Eating even one meal of these fish could possibly lead to health problems in the future, regardless of age or health.



## Finding a Balance

Sometimes a child might eat more than 2 ounces of fish, or a 180 pound adult might eat more than 8 ounces of fish in one sitting. It's OK; just count the number of *MI Servings* you eat in that meal.

For example, let's say the 180 pound adult ate 16 ounces of fish during one meal. That is 2 *MI Servings* of fish for a person of that size. If the fish is listed as 2, 4, or 12 *MI Servings* in the *ESF Guide*, they're still within their range. If the fish is listed as 1 *MI Serving* per month or *Limited*, they might want to avoid eating other meals of fish for a while to give their body time to process the chemicals.

**No one should eat any amount of fish listed as Do Not Eat in the *ESF Guide*.**



# Get to know the **3Cs**

Choose, Clean, Cook



## Choose

If you eat fish often, you can use the *ESF Guide* to choose the safest fish to keep and eat from any Michigan lake or river. Is that fish limited to 1 or 2 *MI Servings* per month in the *ESF Guide*? Use the map to find another lake or river nearby where you can eat more!



## Clean

When you clean your fish, try trimming away as much of the fat as you can see. Some chemicals, like PCBs and dioxin, are stored in the fat. If you cut out the fat, you cut down on the chemicals in your fish. Just note, you can't remove mercury or PFOS from your fish by trimming. Mercury and PFOS are stored in the meat of the fish.



## Cook

Not only is grilling or broiling your fish healthier than frying, it also helps to get rid of more chemical-carrying fat. When you cook a fish on a grate, any fat hiding inside the filet can melt and drip away from the fish. This removes even more of those harmful chemicals.

If you follow the 3Cs carefully, you can remove up to half of the chemicals in your fish.

That means you can double the number of *MI Servings* per month, if:

- Mercury or PFOS are **not listed** in the “**Chemical of Concern**” column.
- The *MI Serving* is not listed as “**Limited**”.

**For example:**

Type of Fish	Chemical of Concern	Size of Fish (length in inches)	MI Servings per Month*	Can you double?
Brown Trout	Dioxin	Any Size	Limited <sup>▲</sup>	No, it is “Limited.”
Burbot	PCBs	Any Size	12	Yes! 24 meals are OK, if you follow the 3Cs.
Carp	Mercury	Any Size	4	No, mercury is listed as a chemical in the fish.

## Use the Statewide Safe Fish Guidelines **ONLY** if:



- your lake or river is not listed in the regional *Eat Safe Fish Guide*, OR
- your lake or river is listed in the *Eat Safe Fish Guide*, but the fish species is not listed.

## Statewide Safe Fish Guidelines

Type of Fish	Chemical of Concern	Size of Fish (length in inches)	MI Servings per Month*
Black Crappie	Mercury	Any Size	4
Bluegill	Mercury	Any Size	8
Brown Trout	Mercury	Any Size	4
Bullhead	Mercury	Any Size	4
Carp	PCBs	Any Size	2
Catfish	PCBs & Mercury	Any Size	4
Largemouth Bass	Mercury	Under 18"	2
		Over 18"	1
Muskellunge	Mercury	Any Size	1
Northern Pike	Mercury	Under 30"	2
		Over 30"	1
Rock Bass	Mercury	Any Size	4
Smallmouth Bass	Mercury	Under 18"	2
		Over 18"	1
Suckers	Mercury	Any Size	8
Sunfish	Mercury	Any Size	8
Walleye	Mercury	Under 20"	2
		Over 20"	1
White Crappie	Mercury	Any Size	4
Yellow Perch	Mercury	Any Size	4

These guidelines are based on the typical amount of chemicals found in fish filets tested from around the state. Some fish may be higher or lower. If any of these fish are listed in the guidelines for the lake or river you are fishing in, use **those** guidelines instead of statewide guidelines. The *MI Servings* recommendation will be more exact for that lake or river because those filets have been tested.

# FAQs

## ***How often is the Eat Safe Fish Guide (ESF Guide) updated?***

The *ESF Guide* is updated regularly, but due to time and funding, not all fish from all bodies of water listed in the *ESF Guide* are tested every year. If there are special problems in the area, fish may be tested more often or sooner than planned.

PCBs, dioxin, mercury, PFOS, and other chemicals that can be found in fish stay in our environment for a very long time. The amount of chemicals found in the fish is not expected to change a lot from year to year.

## ***What part of the fish is tested for the ESF Guide?***

Only the filets of the fish are tested for chemicals. The skin is left on or taken off depending on common practice when cooking the fish. The organs and head are not tested for the *ESF Guide*. Internal organs (liver, fish eggs, etc.) typically have higher levels of chemicals than the filet and shouldn't be eaten.



## ***Can I review the data myself?***

Yes. All of the data, procedures, and scientific reports used to create the *ESF Guide* are available online under Science & Reports at [Michigan.gov/EatSafeFish](https://Michigan.gov/EatSafeFish). If you do not have internet access, call MDHHS at 800-648-6942, and we'll be happy to provide you with the information.

## ***Why does MDHHS always test carp?***



Carp tend to eat everything. MDHHS can use the test results from the carp to find out if there are chemicals in that lake or river, which ones, and how much. If tests on carp come back clean, it is likely other fish are also clean. If the carp have a lot of chemicals in them, then it is likely other species of fish will also have chemicals. MDHHS will then test other species of fish to see if they are safe to eat.

## ***Will I be able to tell if the fish are safe to eat by looking at them?***

No. You will not be able to see any of the chemicals, even mercury or PFOS, in the fish. You also can't taste or smell the chemicals listed in the *ESF Guide*. To find the chemicals, MDHHS tests the fish in a laboratory. MDHHS only tests the filet of the fish — the part most people eat - for chemicals.



You can't see these chemicals in the water, either. Some very clear lakes or rivers can still have fish with higher levels of chemicals. If you eat a lot of Michigan fish, you can check the *ESF Guide* to find the safest options from the lake or river that you're fishing.

## ***Is it safe to touch a fish that has chemicals in it?***

Yes. You do not need to wear gloves or worry about getting the chemicals on you. They will not absorb into your skin from the fish.

Catch and release is almost always safe in Michigan regardless of where you're fishing. However, sometimes your local health department may issue a temporary warning against touching the water - including the fish that live in the water - because of problems like sewage overflow or harmful algae blooms.

You can contact your local health department or visit [Egle.state.mi.us/beach/](http://Egle.state.mi.us/beach/) for local warnings about water quality.

## ***Why should I use the Eat Safe Fish Guide?***

If you eat fish, you might also be eating chemicals — like mercury, PCBs, PFOS, or dioxins. These chemicals can stay in your body for a long time.

The *ESF Guide* is designed to protect everybody — men, women, and children — who eats fish on a regular basis.

Using the *ESF Guide* and following the MI Serving suggestions will keep you from getting too many chemicals in your body at once. Scientists set the limits in the *ESF Guide* so that you are protected from possible health problems from the chemicals, no matter how long they stay in your body.

The *ESF Guide* is designed to protect any person who eats fish on a regular basis. If you are a healthy adult who is not pregnant and only eats Michigan fish once or twice a year from waters that are not posted with MDHHS signs, then you don't *need* to use the *ESF Guide* .

The S.A.F.E. fishing tips and the 3Cs in the *MDHHS Eat Safe Fish in Michigan* brochure will help the occasional Michigan fish eater avoid eating too many chemicals. Call 800-648-6942 to get a free copy of the brochure.

You may choose to eat more fish than the *ESF Guide* recommends. These guidelines are not rules; it is your choice. And not everyone will get sick from eating too many of these chemicals. The chemicals in the fish won't make you sick right away, either. Some people will be fine after years of eating fish with these chemicals in them. Others can have health problems. It is difficult to know who might get sick from the chemicals in fish and who won't. The *ESF Guide* makes it easy for you to make safer choices for you and your family and avoid eating too many chemicals in fish.

## ***I don't see a fish species listed in the ESF Guide. I don't see my favorite fishing hole. What does this mean?***

Michigan is lucky to have over 11,000 lakes, rivers, and streams. Because of that huge number, it is not possible to test every fish species from every body of water in the state.

If you don't see the fish species you're going after listed in the *ESF Guide* for your lake or river OR you don't see the lake or river listed at all, see page 9 for the **Statewide Safe Fish Guidelines**.

# Common Michigan Fish

The fish listed here can be found in lakes and rivers around Michigan. Once you ID your fish, you can use the guidelines in this booklet to see how often the fish is safe to eat.



Black Crappie



Bluegill



Brook Trout



Brown Trout



Burbot



Carp



Channel Catfish



Chinook Salmon  
(aka King Salmon)



Coho Salmon



Lake Herring



Lake Trout



Largemouth Bass  
(aka Green Bass)



Northern Pike



Muskellunge  
(aka Muskie)

Fish are not to scale.

# Common Michigan Fish

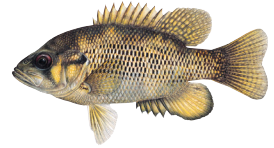
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Pumpkinseed  
(aka Sunfish)



Rainbow Trout



Rock Bass



Siscowet



Sheepshead  
(aka Freshwater Drum)



Smallmouth Bass



Sucker



Walleye



White Bass  
(aka Silver Bass)



White Crappie



Whitefish



Yellow Perch

If you need more help finding out what kind of fish you caught, please visit [Michigan.gov/fishid](https://Michigan.gov/fishid) or call your local DNR Operations Center.

Fish are not to scale.

# Fish Eating Guidelines by County

The fish species listed on the following pages have been tested for chemicals by the Michigan Department of Health and Human Services (MDHHS).

The guidelines issued by MDHHS are based only on the amount of chemicals in the filet of the fish — the part that you would eat.

All fish listed here are not tested every year. Because the chemicals found in fish don't break down quickly, the amount of chemicals in the fish will not change that much from year to year and neither will the guidelines.

If you would like to review the data collected to support these guidelines, they are available at [Michigan.gov/EatSafeFish](https://Michigan.gov/EatSafeFish). If you do not have access to the internet or have additional questions, we are available at 800-648-6942, Monday-Friday, 8am-5pm.



[Michigan.gov/EatSafeFish](https://Michigan.gov/EatSafeFish)



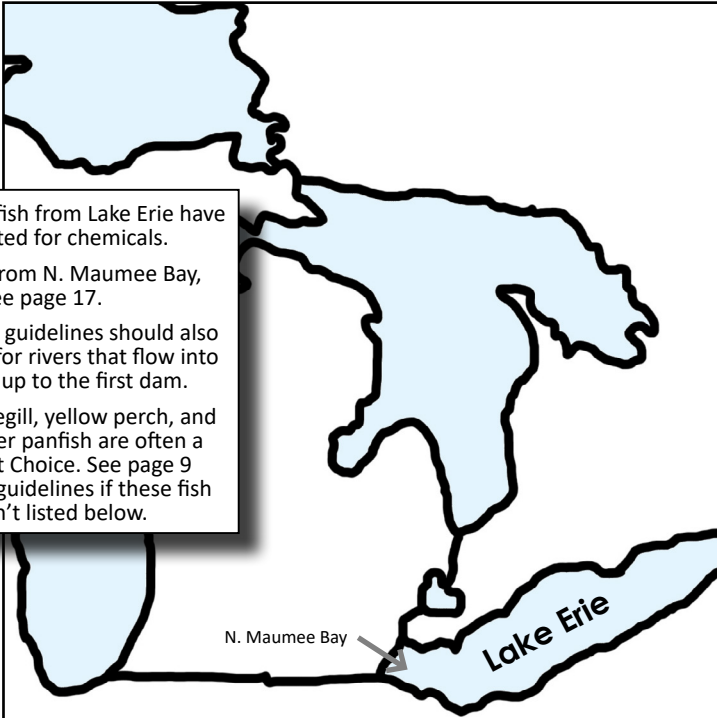
# Contents

Lake Erie .....	16
Lake Huron .....	18
Bay County .....	21
Genesee County .....	24
Huron County .....	28
Lapeer County .....	30
Lenawee County .....	32
Livingston County .....	35
Macomb County .....	42
Midland County .....	46
Monroe County .....	49
Oakland County .....	52
Saginaw County .....	62
Sanilac County .....	66
Shiawassee County .....	67
St. Clair County .....	69
Tuscola County .....	72
Washtenaw County .....	74
Wayne County .....	79
What Are the Chemicals of Concern? .....	90

**See page 86 for a list of all lakes and rivers  
included in this booklet.**

Special thanks to the Michigan Department of Environment, Great Lakes, and Energy and the Michigan Department of Natural Resources for providing technical support for the development of the *Eat Safe Fish Guides*.


# Lake Erie



Filets of fish from Lake Erie have been tested for chemicals.

For fish from N. Maumee Bay, please see page 17.

Lake Erie guidelines should also be used for rivers that flow into the lake, up to the first dam.

 Bluegill, yellow perch, and other panfish are often a Best Choice. See page 9 for guidelines if these fish aren't listed below.


Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Do Not Eat <sup>▲</sup>
Catfish	PCBs & Dioxins	Any	Limited <sup>▲</sup>
Chinook Salmon	PCBs	Any	Limited <sup>▲</sup>
Coho Salmon	PCBs	Any	Limited <sup>▲</sup>
Freshwater Drum	PCBs	Any	Limited <sup>▲</sup>
Lake Whitefish	PCBs	Under 16" Over 16"	6 Per Year <sup>2x</sup> Limited <sup>▲</sup>
Largemouth Bass	PCBs	Any	Limited <sup>▲</sup>
Rainbow Trout	PCBs	Any	Limited <sup>▲</sup>
Smallmouth Bass	PCBs	Any	Limited <sup>▲</sup>
Steelhead	PCBs	Any	Limited <sup>▲</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! = 

## Lake Erie (continued from p 16)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Walleye	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs	Any	Limited <sup>▲</sup>
White Perch	PCBs	Any	Limited <sup>▲</sup>
Yellow Perch	PCBs	Any	2 <sup>2x</sup>

## N. Maumee Bay

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PCBs	Any	Limited <sup>▲</sup>
Smallmouth Bass	PCBs	Any	Limited <sup>▲</sup>

Use the Lake Erie guidelines on page 16 for any fish species not listed above.

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



# Lake Huron




Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Atlantic Salmon	Dioxins	Any	2 <sup>2x</sup>
Brown Trout	PCBs	Any	6 Per Year <sup>2x</sup>
Carp	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Catfish	Dioxins	Any	Limited <sup>▲</sup>
Chinook Salmon	PCBs	Any	6 Per Year <sup>2x</sup>
Coho Salmon	PCBs	Any	6 Per Year <sup>2x</sup>
Freshwater Drum	Mercury	Any	1
Lake Trout	PCBs & Dioxins	Under 20"	1 <sup>2x</sup>
	PCBs	20" to 24"	6 Per Year <sup>2x</sup>
		Over 24"	Limited <sup>▲</sup>
Lake Whitefish	Dioxins	Any	6 Per Year <sup>2x</sup>
Northern Pike	PCBs	Any	1 <sup>2x</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! = 

## Lake Huron (continued from p 18)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Rainbow Trout	PCBs	Any	6 Per Year <sup>2x</sup>
Smelt	PCBs	Any	4 <sup>2x</sup>
Steelhead	PCBs	Any	6 Per Year <sup>2x</sup>
Suckers	PCBs	Any	2 <sup>2x</sup>
Walleye	Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs & Dioxins	Any	Limited <sup>▲</sup>
White Perch	PCBs	Any	6 Per Year <sup>2x</sup>
Yellow Perch	Dioxins	Any	2 <sup>2x</sup>

## Les Cheneaux Island Area & Thunder Bay

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury	Any	12
Carp	PCBs & Dioxins	Any	Limited <sup>▲</sup>
Largemouth Bass	Mercury	Under 18" Over 18"	2 1
Rock Bass	Mercury	Under 8" Over 8"	8 4
Smallmouth Bass	Mercury	Under 18" Over 18"	2 1
Sunfish	Mercury	Any	12
Yellow Perch	Dioxins	Any	2 <sup>2x</sup>

Use the Lake Huron guidelines above for any fish species not listed here.

## Saginaw Bay

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Catfish	Dioxins	Any	Limited <sup>▲</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



## Saginaw Bay (continued from p 19)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Freshwater Drum	Mercury	Any	1
Lake Trout	PCBs & Dioxins	Under 20"	1 <sup>2x</sup>
	PCBs	20" to 24"	6 Per Year <sup>2x</sup>
		Over 24"	Limited <sup>▲</sup>
Walleye	Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Yellow Perch	Dioxins	Any	2 <sup>2x</sup>
All Other Species	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>

\* See page 6

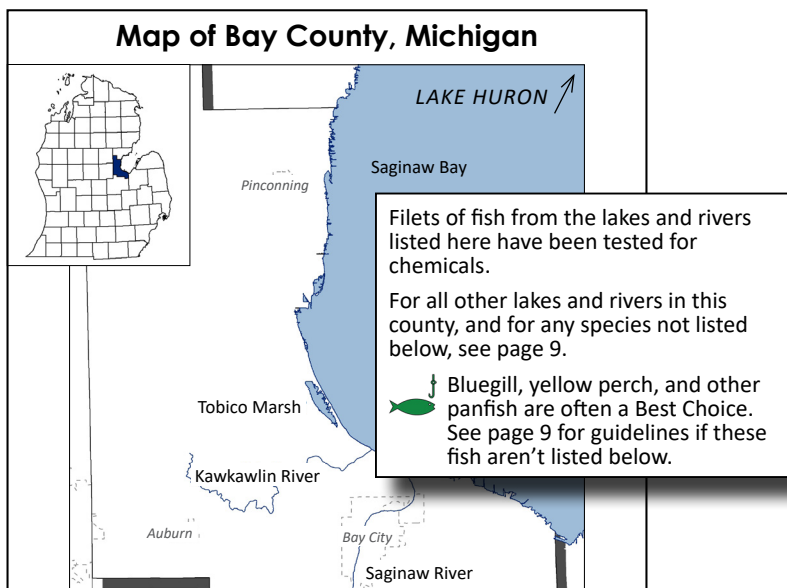
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<sup>2x</sup> See page 8

Best Choice! =



# Bay County



## Kawkawlin River

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Northern Pike	PCBs	Any	Limited <sup>▲</sup>

When fishing the river near Saginaw Bay, use the Saginaw Bay guidelines below.

## Saginaw Bay


Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Catfish	Dioxins	Any	Limited <sup>▲</sup>
Freshwater Drum	Mercury	Any	1
Lake Trout	PCBs & Dioxins	Under 20"	1 <sup>2x</sup>
	PCBs	20" to 24"	6 Per Year <sup>2x</sup>
		Over 24"	Limited <sup>▲</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! = ↓ 

# Bay County (continued)

## Saginaw Bay

(continued from page 21)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Walleye	Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Yellow Perch	Dioxins	Any	2 <sup>2x</sup>
All Other Species	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>

## Saginaw River

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	4
Carp	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Catfish	Dioxins	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PFOS, PCBs, & Mercury	Under 18"	2
	Mercury	Over 18"	1
Smallmouth Bass	PFOS, PCBs, & Mercury	Under 18"	2
	Mercury	Over 18"	1
Sunfish	PFOS	Any	4
Walleye	Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Yellow Perch	Dioxins	Any	2 <sup>2x</sup>
All Other Species	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

(continued on the next page)

## Tobico Marsh

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	6 Per Year <sup>2x</sup>
Largemouth Bass	Mercury	Under 18"	2
		Over 18"	1
Smallmouth Bass	Mercury	Under 18"	2
		Over 18"	1
Northern Pike	Mercury	Under 30"	4
		Over 30"	2

See which fish are safe to eat from Lake Huron on Page 18.

\* See page 6

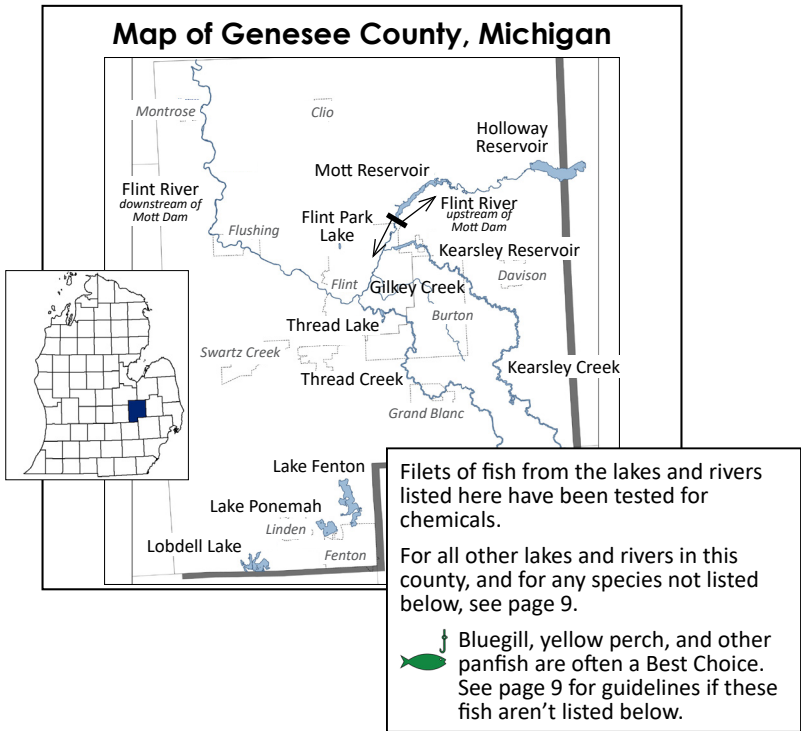
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<sup>2x</sup> See page 8

Best Choice! =



# Genesee County



## Flint Park Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	2
Sunfish	PFOS	Any	2

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

## Flint River

(upstream of Mott Dam, including the Mott Reservoir, Holloway Reservoir, and the North and South Branches of the Flint River in Lapeer Co.)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Black Crappie	Mercury	Any	4
Carp	PFOS	Any	2

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

(continued on the next page)

## Genesee County (continued)

### Flint River

(upstream of Mott Dam, continued from page 24)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Catfish	Mercury	Any	4
Largemouth Bass	PFOS	Any	6 Per Year
Rock Bass	PFOS	Any	1
Smallmouth Bass	PFOS	Any	6 Per Year
Walleye	PFOS	Any	1
White Crappie	Mercury	Any	4

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

### Flint River

(downstream of Mott Dam, including Gilkey Creek)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Largemouth Bass	PFOS	Any	6 Per Year
Rock Bass	PFOS	Any	1
Smallmouth Bass	PFOS	Any	6 Per Year

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

### Holloway Reservoir

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Black Crappie	Mercury	Any	4
Carp	PFOS	Any	2
Catfish	Mercury	Any	4
Largemouth Bass	PFOS	Any	6 Per Year
Rock Bass	PFOS	Any	1
Smallmouth Bass	PFOS	Any	6 Per Year
Walleye	PFOS	Any	1
White Crappie	Mercury	Any	4

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

(continued on the next page)

# Genesee County (continued)

## Kearsley Creek & Reservoir



Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS & Mercury	Any	16
Carp	PCBs	Any	1 <sup>2x</sup>
Largemouth Bass	Mercury	Under 18" Over 18"	4 2
Smallmouth Bass	Mercury	Under 18" Over 18"	4 2
Sunfish	PFOS & Mercury	Any	16



PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

## Lake Fenton

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	Mercury	Under 18" Over 18"	2 1
Smallmouth Bass	Mercury	Under 18" Over 18"	2 1

## Lake Ponemah

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	6 Per Year <sup>2x</sup>
Largemouth Bass	Mercury	Under 18" Over 18"	2 1
Smallmouth Bass	Mercury	Under 18" Over 18"	2 1

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



## Genesee County (continued)

### Lobdell Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Under 24"	2 <sup>2x</sup>
		Over 24"	1 <sup>2x</sup>
Largemouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year
Smallmouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year

### Mott Reservoir

(same as Flint River, upstream of Mott Dam)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Black Crappie	Mercury	Any	4
Carp	PFOS	Any	2
Catfish	Mercury	Any	4
Largemouth Bass	PFOS	Any	6 Per Year
Rock Bass	PFOS	Any	1
Smallmouth Bass	PFOS	Any	6 Per Year
Walleye	PFOS	Any	1
White Crappie	Mercury	Any	4

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

### Thread Creek & Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	6 Per Year <sup>2x</sup>

\* See page 6

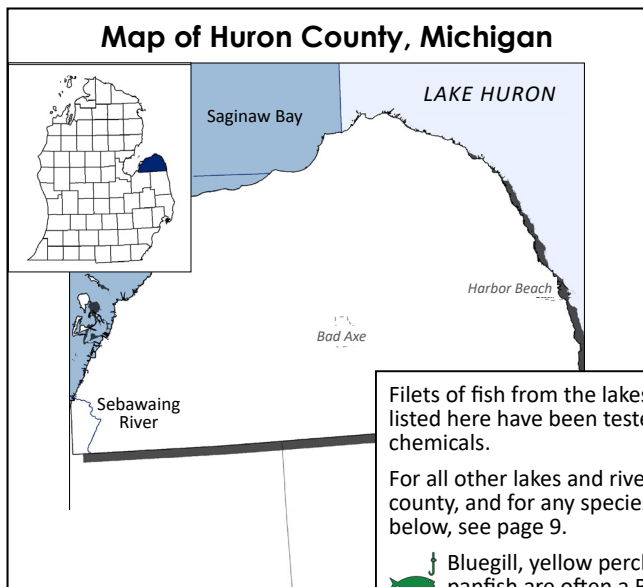
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# Huron County



Filets of fish from the lakes and rivers listed here have been tested for chemicals.

For all other lakes and rivers in this county, and for any species not listed below, see page 9.

 Bluegill, yellow perch, and other panfish are often a Best Choice. See page 9 for guidelines if these fish aren't listed below.

## Saginaw Bay


Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Catfish	Dioxins	Any	Limited <sup>▲</sup>
Freshwater Drum	Mercury	Any	1
Lake Trout	PCBs & Dioxins	Under 20"	1 <sup>2x</sup>
	PCBs	20" to 24"	6 Per Year <sup>2x</sup>
		Over 24"	Limited <sup>▲</sup>
Walleye	Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Yellow Perch	Dioxins	Any	2 <sup>2x</sup>
All Other Species	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

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## Sebawaing River

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Northern Pike	PCBs	Any	1 <sup>2x</sup>

When fishing the river near Saginaw Bay, use the Saginaw Bay guidelines above.

**See which fish are safe to eat from Lake Huron on Page 18.**

\* See page 6

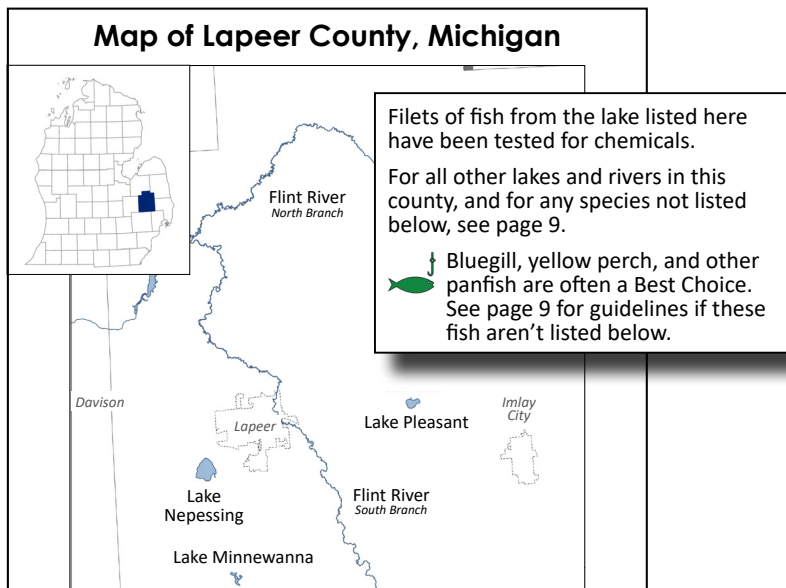
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# Lapeer County



## Flint River

(upstream of Mott Dam, including the Mott Reservoir, and Holloway Reservoir in Genesee Co., and the North and South Branches of the Flint River in Lapeer Co.)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Black Crappie	Mercury	Any	4
Carp	PFOS	Any	2
Catfish	Mercury	Any	4
Largemouth Bass	PFOS	Any	6 Per Year
Rock Bass	PFOS	Any	1
Smallmouth Bass	PFOS	Any	6 Per Year
Walleye	PFOS	Any	1
White Crappie	Mercury	Any	4

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

(continued on the next page)

\* See page 6

▲ See page 7

2x See page 8

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## Lapeer County (continued)

### Lake Minnewanna

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year
Smallmouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year

### Lake Nepessing



Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs & Mercury	Under 32"	8
		Over 32"	2
Largemouth Bass	Mercury	Under 18"	2
		Over 18"	1
Smallmouth Bass	Mercury	Under 18"	2
		Over 18"	1

### Lake Pleasant

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	4
Largemouth Bass	PFOS & Mercury	Under 18"	1
	Mercury	Over 18"	6 Per Year
Smallmouth Bass	PFOS & Mercury	Under 18"	1
	Mercury	Over 18"	6 Per Year
Sunfish	PFOS	Any	4

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

\* See page 6

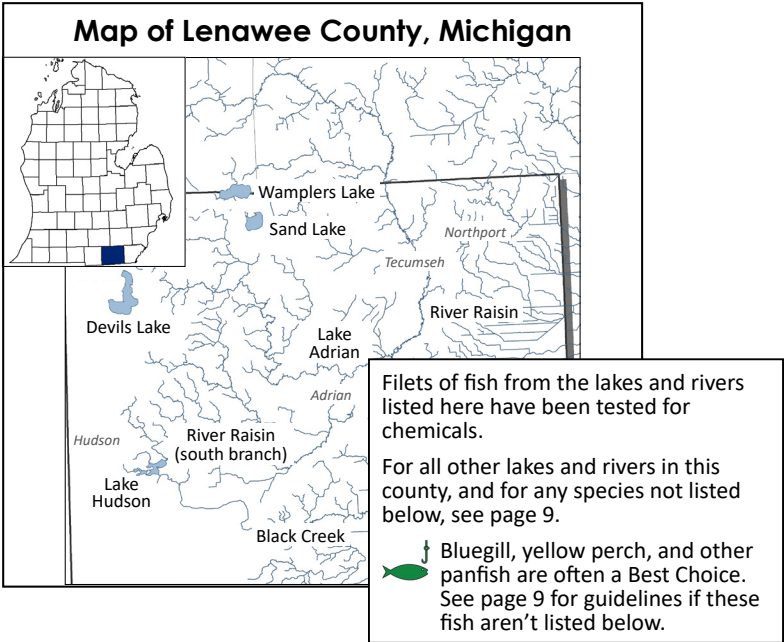
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# Lenawee County



## Black Creek

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>

## Devils Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	Mercury	Under 18"	2
		Over 18"	1
Smallmouth Bass	Mercury	Under 18"	2
		Over 18"	1

(continued on the next page)

## Lenawee County (continued)

### Lake Adrian

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	Mercury	Any	2
Largemouth Bass	Mercury	Under 18"	2
		Over 18"	1
Smallmouth Bass	Mercury	Under 18"	2
		Over 18"	1

### Lake Hudson

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	Mercury	Any	2
Largemouth Bass	Mercury	Under 18"	2
		Over 18"	1
Smallmouth Bass	Mercury	Under 18"	2
		Over 18"	1

### River Raisin - Main Branch

(see Monroe Co., page 47, for guidelines downstream of Dundee Dam)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	6 Per Year <sup>2x</sup>

### River Raisin - South Branch

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Suckers	Mercury	Under 13"	1
		Over 13"	6 Per Year

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

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Lenawee County (continued)

Sand Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Walleye	Mercury	Any	1


Wamplers Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Black Crappie	Mercury	Any	2
Largemouth Bass	Mercury	Under 20" Over 20"	1 6 Per Year
Smallmouth Bass	Mercury	Under 20" Over 20"	1 6 Per Year
White Crappie	Mercury	Any	2

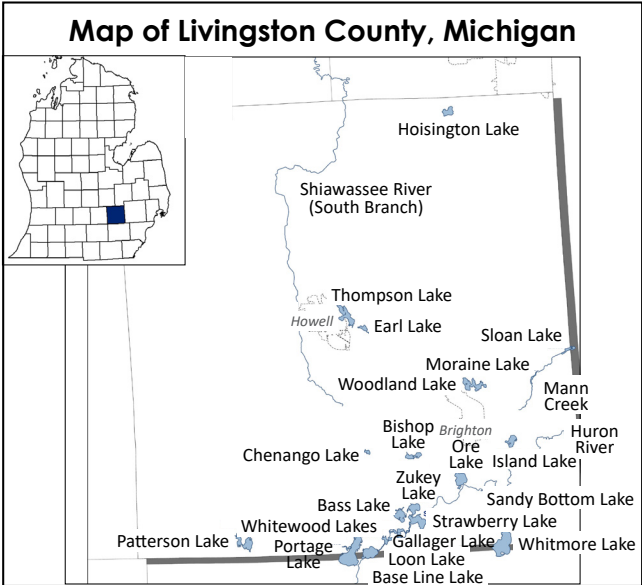
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<sup>2x</sup> See page 8


Best Choice! = 

# Livingston County



Filets of fish from the lakes and rivers listed here have been tested for chemicals.

For all other lakes and rivers in this county, and for any species not listed below, see page 9.

 Bluegill, yellow perch, and other panfish are often a Best Choice. See page 9 for guidelines if these fish aren't listed below.

## Base Line Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Rock Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Sunfish	PFOS	Any	Do Not Eat <sup>▲</sup>
All Other Species	PFOS	Any	Do Not Eat <sup>▲</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

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# Livingston County (continued)

## Bass Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury	Any	4
Sunfish	Mercury	Any	4

## Bishop Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year
Northern Pike	Mercury	Any	6 Per Year
Smallmouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year

## Chenango Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bullhead	Mercury	Any	4
Largemouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year
Smallmouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year

## Earl Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury	Any	4
Sunfish	Mercury	Any	4

(continued on the next page)

## Livingston County (continued)

### Gallagher Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
All Species	PFOS	Any	Do Not Eat <sup>▲</sup>

### Hoisington Lake



Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs & Mercury	Any	8
Largemouth Bass	Mercury	Under 18" Over 18"	1 6 per year
Smallmouth Bass	Mercury	Under 18" Over 18"	1 6 per year

### Huron River (1)

(downstream of N Wixom Rd in Oakland County to I-275 crossing in Wayne County, including Base Line Lake, Ore Lake, Strawberry Lake, Zukey Lake, Gallagher Lake, Loon Lake, Whitewood Lakes, and Portage Lakes.)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
All Species	PFOS	Any	Do Not Eat <sup>▲</sup>

### Island Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	Mercury	Under 18" Over 18"	1 6 Per Year
Smallmouth Bass	Mercury	Under 18" Over 18"	1 6 Per Year

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\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

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Livingston County (continued)

Loon Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
All Species	PFOS	Any	Do Not Eat <sup>▲</sup>

Moraine Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
	Black Crappie	Under 8"	16
	Mercury	Over 8"	8
	Bluegill	Any	16
	Largemouth Bass	Under 18"	2
	Mercury	Over 18"	1
	Smallmouth Bass	Under 18"	2
	Mercury	Over 18"	1
	Sunfish	Any	16
	White Crappie	Under 8"	16
	Mercury	Over 8"	8

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

Ore Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	Do Not Eat <sup>▲</sup>
Sunfish	PFOS	Any	Do Not Eat <sup>▲</sup>
All Other Species	PFOS	Any	Do Not Eat <sup>▲</sup>

(continued on the next page)

## Livingston County (continued)

### Patterson Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	Mercury	Any	4
Largemouth Bass	Mercury	Under 18" Over 18"	1 6 Per Year
Smallmouth Bass	Mercury	Under 18" Over 18"	1 6 Per Year

### Portage Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	Do Not Eat <sup>▲</sup>
Carp	PFOS	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Sunfish	PFOS	Any	Do Not Eat <sup>▲</sup>
Walleye	PFOS	Any	Do Not Eat <sup>▲</sup>
All Other Species	PFOS	Any	Do Not Eat <sup>▲</sup>

### Sandy Bottom Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury	Any	4
Sunfish	Mercury	Any	4

### Shiawassee River - South Branch


Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Rock Bass	PCBs	Any	Do Not Eat <sup>▲</sup>
All Other Species	PCBs	Any	Do Not Eat <sup>▲</sup>

(continued on the next page)

\* See page 6

▲ See page 7


<sup>2x</sup> See page 8

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# Livingston County (continued)

## Sloan Lake

(including all of Mann Creek)



Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury	Any	16
Northern Pike	Mercury	Under 32"	2
		Over 32"	1
Sunfish	Mercury	Any	16



## Strawberry Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
All Species	PFOS	Any	Do Not Eat <sup>▲</sup>

## Thompson Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Black Crappie	PCBs	Any	Limited <sup>▲</sup>
Northern Pike	PCBs	Any	Limited <sup>▲</sup>
White Crappie	PCBs	Any	Limited <sup>▲</sup>
All Other Species	PCBs	Any	Limited <sup>▲</sup>

## Whitewood Lakes

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
All Species	PFOS	Any	Do Not Eat <sup>▲</sup>

\* See page 6

<sup>▲</sup> See page 7


<sup>2x</sup> See page 8

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## Livingston County (continued)

### Whitmore Lake




Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS & Mercury	Any	16
Carp	PCBs	Any	2 <sup>2x</sup>
Northern Pike	Mercury	Under 30"	1
		Over 30"	6 Per Year
Sunfish	PFOS & Mercury	Any	16




PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

### Woodland Lake



Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury	Any	12
Carp	PCBs	Any	4 <sup>2x</sup>
Largemouth Bass	Mercury	Under 18"	2
		Over 18"	1
Smallmouth Bass	Mercury	Under 18"	2
		Over 18"	1
Sunfish	Mercury	Any	12



### Zukey Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
All Species	PFOS	Any	Do Not Eat <sup>▲</sup>

\* See page 6

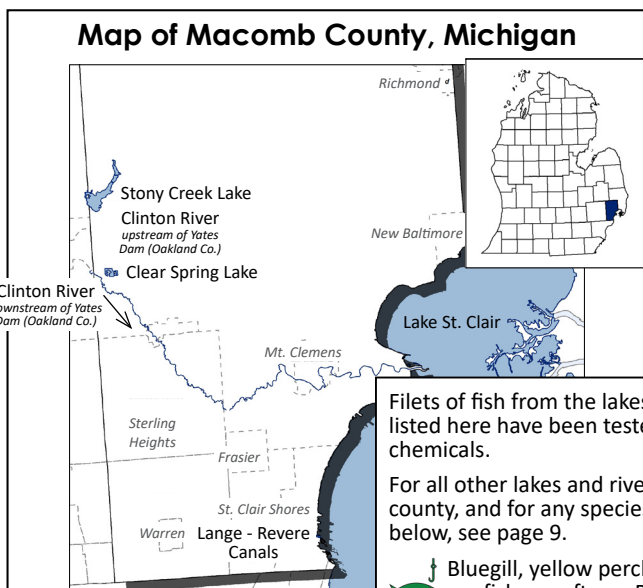
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# Macomb County



Filets of fish from the lakes and rivers listed here have been tested for chemicals.

For all other lakes and rivers in this county, and for any species not listed below, see page 9.

Bluegill, yellow perch, and other panfish are often a Best Choice. See page 9 for guidelines if these fish aren't listed below.

## Clear Spring Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	PCBs	Under 18"	1 <sup>2x</sup>
	PCBs & Mercury	Over 18"	1
Smallmouth Bass	PCBs	Under 18"	1 <sup>2x</sup>
	PCBs & Mercury	Over 18"	1

## Clinton River

(downstream of Yates Dam, Oakland Co.)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Rock Bass	Mercury	Any	2

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\* See page 6

▲ See page 7


<sup>2x</sup> See page 8

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# Macomb County (continued)

## Clinton River

(continued from page 42)



Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Suckers	PCBs & Mercury	Any	8
Walleye	PCBs	Under 24"	1 <sup>2x</sup>
	PCBs & Mercury	Over 24"	1

When fishing the river near Lake St. Clair, use the lake guidelines below.

## Clinton River


(Clinton River upstream of Yates Dam, including Stony Creek up to the Winkler Pond Dam)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Rock Bass	PFOS	Any	4

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

## Lake St. Clair

(If you are fishing on the lake in between Lakefront Park and Veteran's Memorial Park & out into open water in that area, please see the Special Notice, page 44.)



Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	4
Carp	PCBs	Any	Limited <sup>▲</sup>
Catfish	Dioxins	Any	Limited <sup>▲</sup>
Black Crappie	Mercury	Under 9"	8
		Over 9"	4
Freshwater Drum	PCBs & Mercury	Any	2
Largemouth Bass	PCBs & Mercury	Under 17"	2
	Mercury	Over 17"	1

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

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\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

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# Macomb County (continued)

## Lake St. Clair

(continued from page 43)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Muskellunge	Mercury	Any	Do Not Eat <sup>▲</sup>
Northern Pike	Mercury	Any	2
Rock Bass	PCBs	Any	1 <sup>2x</sup>
Smallmouth Bass	PCBs & Mercury	Under 17"	2
	Mercury	Over 17"	1
Sunfish	PFOS	Any	4
Sturgeon	PCBs	Any	Limited <sup>▲</sup>
Walleye	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs	Any	Limited <sup>▲</sup>
White Crappie	Mercury	Under 9"	8
		Over 9"	4
Yellow Perch	Mercury	Any	4

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

## Lake St. Clair: Special Notice

(Use when fishing within 2 miles of the Lange-Revere Canals. This area is between Lakefront Park and Veteran's Memorial Park & out into open water.)


Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PCBs	Any	6 Per Year <sup>2x</sup>
Carp	PCBs	Any	Limited <sup>▲</sup>
Largemouth Bass	PCBs	Under 20"	1 <sup>2x</sup>
	PCBs & Mercury	Over 20"	1
Muskellunge	Mercury	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	PCBs	Under 20"	1 <sup>2x</sup>
	PCBs & Mercury	Over 20"	1

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\* See page 6

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<sup>2x</sup> See page 8

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# Macomb County (continued)

## Lake St. Clair: Special Notice

(continued from page 44)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Sunfish	PCBs	Any	6 Per Year <sup>2x</sup>
Walleye	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>
Yellow Perch	PCBs	Any	2 <sup>2x</sup>
All Other Species	PCBs	Any	Limited <sup>▲</sup>

## Lange-Revere Canals

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
All Species	PCBs	Any	Do Not Eat <sup>▲</sup>

## Stony Creek Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	None	Any	16 <sup>2x</sup>
Black Crappie	Mercury	Any	2
Carp	PCBs	Any	1 <sup>2x</sup>
Largemouth Bass	Mercury	Under 18" Over 18"	2 1
Northern Pike	Mercury	Under 30" Over 30"	1 6 Per Year
Rock Bass	Mercury	Any	4
Smallmouth Bass	Mercury	Under 18" Over 18"	2 1
Sunfish	None	Any	16 <sup>2x</sup>
Walleye	Mercury	Under 20" Over 20"	2 1
White Crappie	Mercury	Any	2

\* See page 6

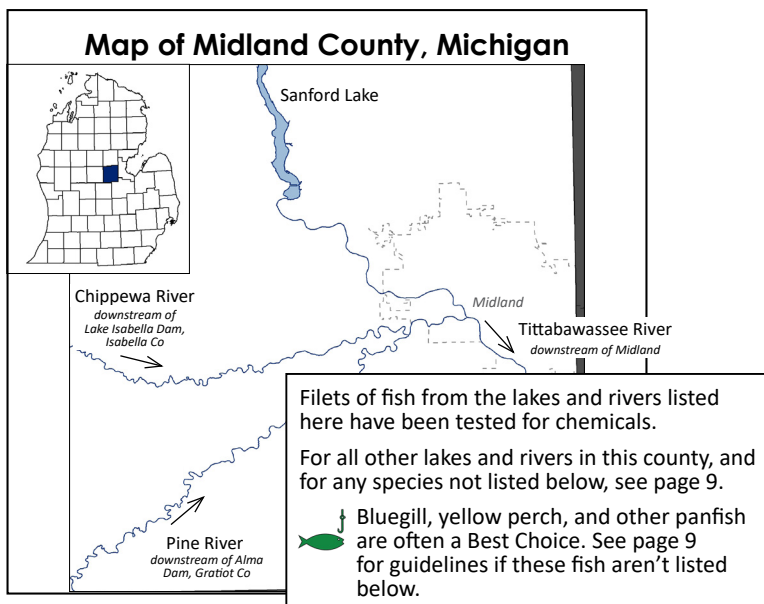
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<sup>2x</sup> See page 8

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# Midland County



## Chippewa River

(downstream of Lake Isabella Dam, Isabella Co.)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs & Dioxins	Any	Limited <sup>▲</sup>
Rock Bass	Mercury	Under 8" Over 8"	4 2
Suckers	Mercury & PCBs	Any	2

When fishing in the Chippewa River near the Pine River, please use the Pine River guidelines below.

## Pine River

(downstream of St. Louis Dam in Gratiot Co. to the Chippewa River)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	DDT	Any	Do Not Eat <sup>▲</sup>
Catfish	DDT	Any	Do Not Eat <sup>▲</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =

# Midland County (continued)

## Pine River

(continued from page 46)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	DDT	Any	Do Not Eat <sup>▲</sup>
Rock Bass	DDT	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	DDT	Any	Do Not Eat <sup>▲</sup>
Suckers	DDT	Any	Do Not Eat <sup>▲</sup>
All Other Species	DDT	Any	Do Not Eat <sup>▲</sup>

## Sanford Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Catfish	Mercury & Dioxins	Any	2
Black Crappie	Mercury	Under 9" Over 9"	8 4
Northern Pike	Mercury	Under 30" Over 30"	2 1
Rock Bass	Mercury	Any	4
Walleye	Mercury	Under 20" Over 20"	2 1
White Crappie	Mercury	Under 9" Over 9"	8 4

## Tittabawassee River

(downstream of Midland)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Catfish	Dioxins	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PCBs & Dioxins	Under 18" Over 18"	6 Per Year <sup>2x</sup> Limited <sup>▲</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



## Midland County (continued)

### Tittabawassee River

(continued from page 47)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Smallmouth Bass	PCBs & Dioxins	Under 18" Over 18"	6 Per Year <sup>2x</sup> Limited <sup>▲</sup>
Suckers	PCBs	Any	6 Per Year <sup>2x</sup>
Walleye	Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Yellow Perch	Dioxins	Any	2 <sup>2x</sup>
All Other Species	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =




# Monroe County



Filets of fish from the lakes and rivers listed here have been tested for chemicals.

For all other lakes and rivers in this county, and for any species not listed below, see page 9.

 Bluegill, yellow perch, and other panfish are often a Best Choice. See page 9 for guidelines if these fish aren't listed below.

## Huron River (2)

(where the river crosses I-275 in Wayne County to Lake Erie, includes Flat Rock Impoundment)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	8
Carp	PCBs & Dioxins	Under 28" Over 28"	Limited <sup>▲</sup> Do Not Eat <sup>▲</sup>
Catfish	PCBs	Any	1 <sup>2x</sup>
Largemouth Bass	Mercury & PCBs	Any	4
Rock Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	Mercury & PCBs	Any	4
Sunfish	PFOS	Any	8


PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! = 

## N. Maumee Bay

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PCBs	Any	Limited <sup>▲</sup>
Smallmouth Bass	PCBs	Any	Limited <sup>▲</sup>

Use the Lake Erie guidelines on page 16 for any fish species not listed above.

## Ottawa River

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PCBs	Any	Limited <sup>▲</sup>
Smallmouth Bass	PCBs	Any	Limited <sup>▲</sup>

When fishing the river near Lake Erie, please check the lake guidelines on page 16, too.

## Plum Creek

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Black Buffalo	PCBs	Any	Do Not Eat <sup>▲</sup>
Carp	PCBs	Any	Do Not Eat <sup>▲</sup>
Catfish	PCBs & Dioxins	Any	Limited <sup>▲</sup>
Freshwater Drum	PCBs	Any	Limited <sup>▲</sup>
Largemouth Bass	PCBs	Any	Limited <sup>▲</sup>
Smallmouth Bass	PCBs	Any	Limited <sup>▲</sup>
White (Silver) Bass	PCBs	Any	Limited <sup>▲</sup>
All Other Species	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

# Monroe County (continued)



## River Raisin

(downstream of Dundee Dam in Dundee Township)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Do Not Eat <sup>▲</sup>
Catfish	PCBs & Dioxins	Any	Limited <sup>▲</sup>
Freshwater Drum	PCBs	Any	Limited <sup>▲</sup>
Largemouth Bass	PCBs	Any	Limited <sup>▲</sup>
Rock Bass	Mercury	Any	4
Smallmouth Bass	PCBs	Any	Limited <sup>▲</sup>
White (Silver) Bass	PCBs	Any	Limited <sup>▲</sup>
All Other Species	PCBs	Any	6 Per Year <sup>2x</sup>

## River Raisin

(upstream of Dundee Dam in Dundee Township, including Dundee Pond)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
 Bluegill	Mercury & PFOS	Any	8
Largemouth Bass	Mercury	Under 18" Over 18"	2 1
Smallmouth Bass	Mercury	Under 18" Over 18"	2 1
 Sunfish	Mercury & PFOS	Any	8


PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

See which fish are safe to eat from Lake Erie on Page 16.

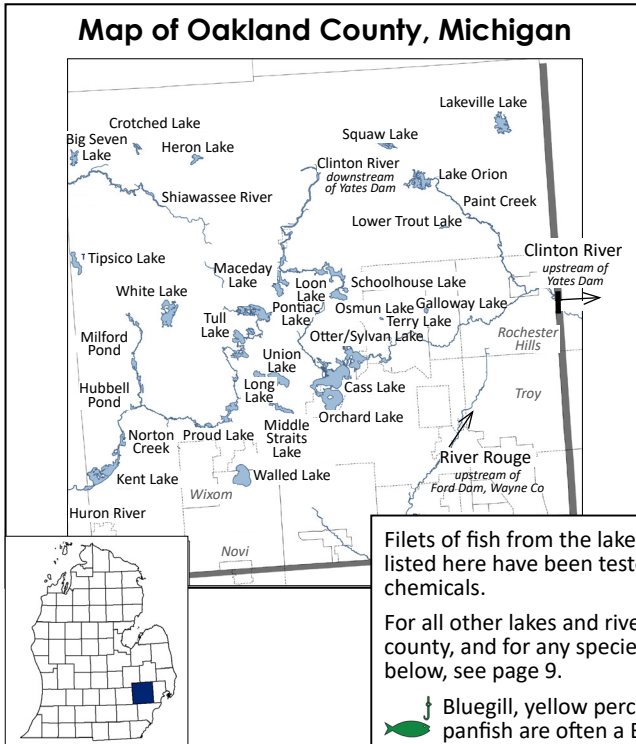
\* See page 6

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<sup>2x</sup> See page 8

Best Choice! = 

# Oakland County



## Big Seven Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year
Smallmouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year

(continued on the next page)



## Cass Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	Mercury & PFOS	Under 18"	1
	Mercury	Over 18"	6 Per Year
Smallmouth Bass	Mercury & PFOS	Under 18"	1
	Mercury	Over 18"	6 Per Year
Walleye	PCBs & Mercury	Under 24"	1
		Over 24"	6 Per Year

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

## Clinton River

(downstream of Yates Dam, Oakland Co.)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Rock Bass	Mercury	Any	2
Suckers	PCBs & Mercury	Any	8
Walleye	PCBs	Under 24"	1 <sup>2x</sup>
	PCBs & Mercury	Over 24"	1



## Clinton River

(Clinton River upstream of Yates Dam, including Stony Creek up to the Winkler Pond Dam)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Rock Bass	PFOS	Any	4

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



# Oakland County (continued)

## Crotched Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	1 <sup>2x</sup>

## Galloway Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	2 <sup>2x</sup>
Largemouth Bass	Mercury	Under 18" Over 18"	2 1
Smallmouth Bass	Mercury	Under 18" Over 18"	2 1

## Heron Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	Mercury	Under 18" Over 18"	1 6 Per Year
Smallmouth Bass	Mercury	Under 18" Over 18"	1 6 Per Year

## Hubbell Pond

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
All Other Species	PFOS	Any	Do Not Eat <sup>▲</sup>

(continued on the next page)

## Huron River (1)


(downstream of N Wixom Rd to where the river crosses I-275 in Wayne County, includes Norton Creek, Hubbell Pond, also known as Mill Pond, and Kent Lake)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
All Species	PFOS	Any	Do Not Eat <sup>▲</sup>

## Kent Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Black Crappie	PFOS	Any	Do Not Eat <sup>▲</sup>
Bluegill	PFOS	Any	Do Not Eat <sup>▲</sup>
Carp	PFOS	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Sunfish	PFOS	Any	Do Not Eat <sup>▲</sup>
Walleye	PFOS	Any	Do Not Eat <sup>▲</sup>
White Crappie	PFOS	Any	Do Not Eat <sup>▲</sup>
All Other Species	PFOS	Any	Do Not Eat <sup>▲</sup>

## Lake Orion



Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	DDT	Under 20"	8 <sup>2x</sup>
	PCBs	20" to 26"	2 <sup>2x</sup>
		Over 26"	1 <sup>2x</sup>
Largemouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year
Smallmouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =




# Oakland County (continued)


## Lakeville Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	2 <sup>2x</sup>
Largemouth Bass	Mercury	Under 18"	2
		Over 18"	1
Smallmouth Bass	Mercury	Under 18"	2
		Over 18"	1

## Long Lake




Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury	Any	8
Largemouth Bass	PFOS	Any	1
Smallmouth Bass	PFOS	Any	1



Sunfish	Mercury	Any	8
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PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

## Loon Lake



Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Under 20"	8 <sup>2x</sup>
		20" to 24"	2 <sup>2x</sup>
		Over 24"	6 Per Year <sup>2x</sup>
Largemouth Bass	Mercury	Under 18"	2
		Over 18"	1
Smallmouth Bass	Mercury	Under 18"	2
		Over 18"	1

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\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

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## Lower Trout Lake


Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year
Smallmouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year

## Maceday Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Northern Pike	Mercury	Any	1

## Milford Pond

(Milford Mill Pond, including Pettibone Creek downstream of Moore Lake Dam to Pettibone Creek Powerhouse Dam)



Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury	Any	8
Sunfish	Mercury	Any	8

When fishing downstream of Pettibone Creek Powerhouse Dam, follow Huron River guidelines.

## Middle Straits Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Northern Pike	Mercury	Under 30"	1
		Over 30"	6 Per Year

## Norton Creek

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
All Species	PFOS	Any	Do Not Eat <sup>▲</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

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# Oakland County (continued)

## Orchard Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year
Northern Pike	Mercury	Under 30"	6 Per Year
		Over 30"	Do Not Eat <sup>▲</sup>
Smallmouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year

## Osmun Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Under 22"	6 Per Year <sup>2x</sup>
		Over 22"	Limited <sup>▲</sup>
Largemouth Bass	PCBs	Under 18"	2 <sup>2x</sup>
	PCBs & Mercury	Over 18"	2
Smallmouth Bass	PCBs	Under 18"	2 <sup>2x</sup>
	PCBs & Mercury	Over 18"	2

## Otter/Sylvan Lakes


Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Under 20"	2 <sup>2x</sup>
		Over 20"	Limited <sup>▲</sup>
Largemouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year
Smallmouth Bass	Mercury	Under 18"	1
		Over 18"	6 Per Year

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! = 

## Oakland County (continued)

### Paint Creek

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Suckers	PCBs	Any	4 <sup>2x</sup>

### Pontiac Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	2 <sup>2x</sup>
Catfish	PCBs	Any	1 <sup>2x</sup>

### Proud Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury	Any	4
Carp	Mercury	Any	4
Largemouth Bass	PFOS	Any	6 Per Year
Rock Bass	Mercury	Under 7" Over 7"	4 2
Smallmouth Bass	PFOS	Any	6 Per Year
Sunfish	Mercury	Any	4

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

### Rouge River

(Upper and Main Branch, upstream of Ford Dam, Wayne Co.)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Suckers	PCBs	Any	6 Per Year <sup>2x</sup>

### Schoolhouse Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	1 <sup>2x</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



# Oakland County (continued)

## Shiawassee River

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Rock Bass	Mercury	Any	4

## Squaw Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury	Any	2
Sunfish	Mercury	Any	2

## Terry Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Under 18"	1 <sup>2x</sup>
		Over 18"	Limited <sup>▲</sup>
Largemouth Bass	Mercury	Under 18"	2
		Over 18"	1
Smallmouth Bass	Mercury	Under 18"	2
		Over 18"	1

## Tipsico Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Northern Pike	Mercury	Under 30"	2
		Over 30"	1

## Tull Lake


Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	2 <sup>2x</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! = 

# Oakland County (continued)

## Union Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	Mercury	Under 18" Over 18"	1 6 Per Year
Smallmouth Bass	Mercury	Under 18" Over 18"	1 6 Per Year

## Walled Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	1 <sup>2x</sup>

## White Lake



Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Rock Bass	Mercury	Any	8
Walleye	Mercury	Under 22" Over 22"	2 1

\* See page 6

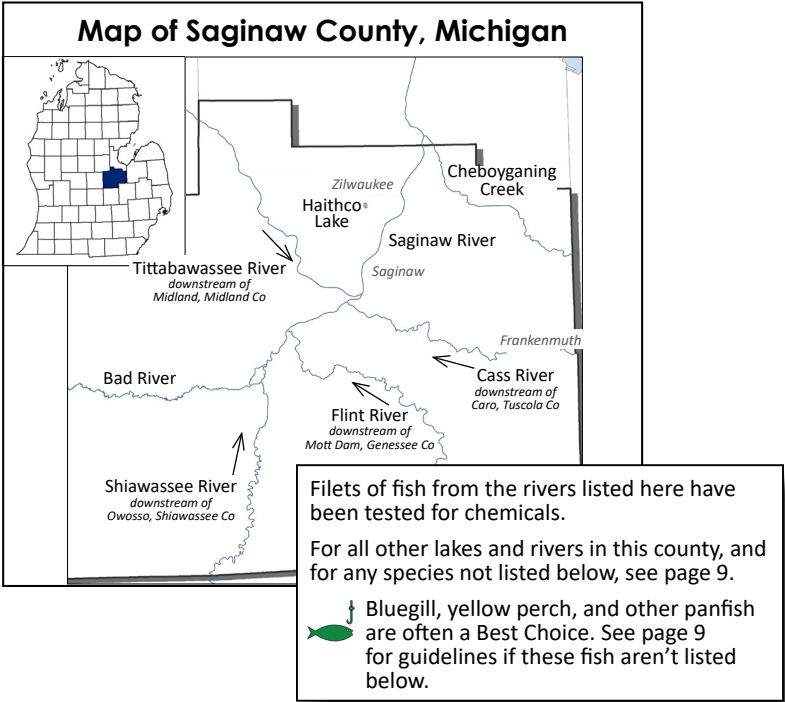
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<sup>2x</sup> See page 8

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# Saginaw County



## Bad River

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Catfish	PCBs	Under 18" Over 18"	1 <sup>2x</sup> 6 Per Year <sup>2x</sup>
Northern Pike	PCBs & Mercury	Any	2

## Cass River

(downstream of Caro in Tuscola Co.)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>
Catfish	Dioxins	Any	6 Per Year <sup>2x</sup>
Rock Bass	Mercury	Any	2

(continued on the next page)



## Saginaw County (continued)

### Cheboyganing Creek

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Northern Pike	PCBs	Under 26"	1 <sup>2x</sup>
		Over 26"	6 Per Year <sup>2x</sup>

### Flint River

(downstream of Mott Dam in Genesee Co., including Gilkey Creek)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Largemouth Bass	PFOS	Any	6 Per Year
Rock Bass	PFOS	Any	1
Smallmouth Bass	PFOS	Any	6 Per Year

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

### Haithco Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Black Crappie	Mercury	Any	4
White Crappie	Mercury	Any	4
Yellow Perch	Mercury	Any	4

### Saginaw River

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	4
Carp	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Catfish	Dioxins	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PFOS, PCBs, & Mercury	Under 18"	2
	Mercury	Over 18"	1

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



# Saginaw County (continued)

## Saginaw River

(continued from page 63)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Smallmouth Bass	PFOS, PCBs, & Mercury	Under 18"	2
	Mercury	Over 18"	1
Sunfish	PFOS	Any	4
Walleye	Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Yellow Perch	Dioxins	Any	2 <sup>2x</sup>
All Other Species	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

## Shiawassee River

(downstream of Owosso, Shiawassee Co.)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	6 Per Year <sup>2x</sup>
Largemouth Bass	Mercury	Under 18"	2
		Over 18"	1
Rock Bass	Mercury	Any	8
Smallmouth Bass	Mercury	Under 18"	2
		Over 18"	1



## Tittabawassee River

(downstream of Midland, Midland Co.)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Catfish	Dioxins	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PCBs & Dioxins	Under 18"	6 Per Year <sup>2x</sup>
		Over 18"	Limited <sup>▲</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

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## Saginaw County (continued)

### Tittabawassee River

(continued from page 64)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Smallmouth Bass	PCBs & Dioxins	Under 18" Over 18"	6 Per Year <sup>2x</sup> Limited <sup>▲</sup>
Suckers	PCBs	Any	6 Per Year <sup>2x</sup>
Walleye	Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Yellow Perch	Dioxins	Any	2 <sup>2x</sup>
All Other Species	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>

\* See page 6

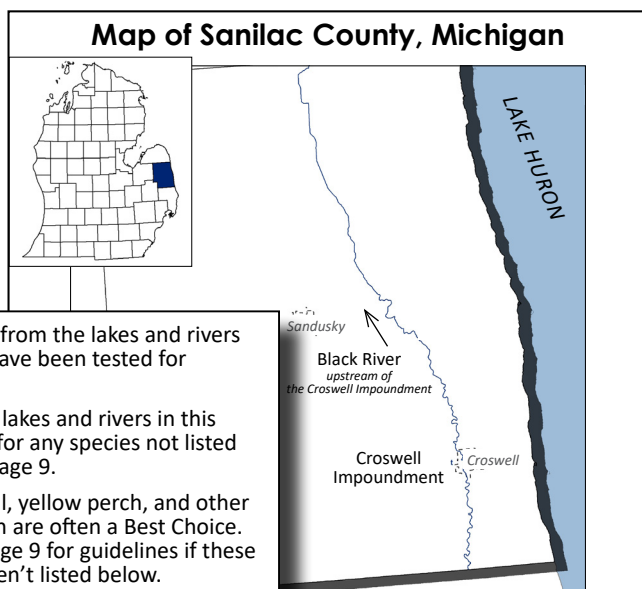
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<sup>2x</sup> See page 8

Best Choice! =



# Sanilac County



## Black River

(upstream of the Croswell Impoundment)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	Mercury	Any	4

## Croswell Impoundment


Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	Mercury	Any	4

**See which fish are safe to eat from Lake Huron on Page 18.**

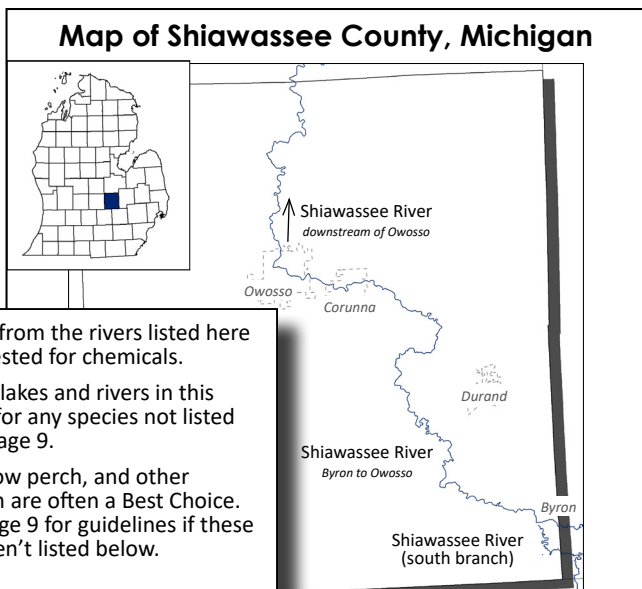
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<sup>2x</sup> See page 8

Best Choice! = 

# Shiawassee County



## Shiawassee River - South Branch

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Rock Bass	PCBs	Any	Do Not Eat <sup>▲</sup>
All Other Species	PCBs	Any	Do Not Eat <sup>▲</sup>

## Shiawassee River

(Byron to Owosso)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Largemouth Bass	PCBs	Under 18"	2 <sup>2x</sup>
	PCBs & Mercury	Over 18"	2
Northern Pike	PCBs	Under 30"	6 Per Year <sup>2x</sup>
		Over 30"	Limited <sup>▲</sup>
Rock Bass	PCBs	Any	6 Per Year <sup>2x</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



# Shiawassee County (continued)

## Shiawassee River

(continued from page 67; Byron to Owosso)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Smallmouth Bass	PCBs	Under 18"	2 <sup>2x</sup>
	PCBs & Mercury	Over 18"	2
Suckers	PCBs	Any	6 Per Year <sup>2x</sup>

## Shiawassee River

(downstream of Owosso)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	6 Per Year <sup>2x</sup>
Largemouth Bass	Mercury	Under 18"	2
		Over 18"	1
Rock Bass	Mercury	Any	8
Smallmouth Bass	Mercury	Under 18"	2
		Over 18"	1



\* See page 6

▲ See page 7

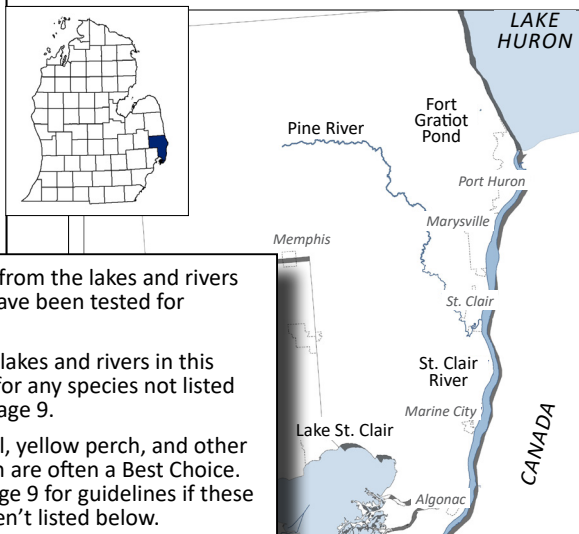
<sup>2x</sup> See page 8

Best Choice! =




# St. Clair County

Map of St. Clair County, Michigan



Filets of fish from the lakes and rivers listed here have been tested for chemicals.

For all other lakes and rivers in this county, and for any species not listed below, see page 9.

 Bluegill, yellow perch, and other panfish are often a Best Choice. See page 9 for guidelines if these fish aren't listed below.

## Fort Gratiot Pond

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury	Any	4
Sunfish	Mercury	Any	4

## Lake St. Clair

(If you're fishing within 2 miles of the outlet of the Lange-Revere Canals in Macomb Co., see page 44 for a special notice. This area is between Lakefront Park and Veteran's Memorial Park & out into open water.)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	4
Carp	PCBs	Any	Limited <sup>▲</sup>
Catfish	Dioxins	Any	Limited <sup>▲</sup>
Black Crappie	Mercury	Under 9"	8
		Over 9"	4

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

(continued on the next page)

\* See page 6

▲ See page 7

2x See page 8

Best Choice! =



# St. Clair County (continued)

## Lake St. Clair

(continued from page 69)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Freshwater Drum	PCBs & Mercury	Any	2
Largemouth Bass	PCBs & Mercury	Under 17"	2
	Mercury	Over 17"	1
Muskellunge	Mercury	Any	Do Not Eat <sup>▲</sup>
Northern Pike	Mercury	Any	2
Rock Bass	PCBs	Any	1 <sup>2x</sup>
Smallmouth Bass	PCBs & Mercury	Under 17"	2
	Mercury	Over 17"	1
Sunfish	PFOS	Any	4
Sturgeon	PCBs	Any	Limited <sup>▲</sup>
Walleye	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs	Any	Limited <sup>▲</sup>
White Crappie	Mercury	Under 9"	8
		Over 9"	4
Yellow Perch	Mercury	Any	4



PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

## Pine River

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	1 <sup>2x</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



## St. Clair County (continued)

### St. Clair River

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Freshwater Drum	PCBs & Mercury	Any	2
Largemouth Bass	Mercury	Under 18" Over 18"	2 1
Rock Bass	Mercury	Any	4
Smallmouth Bass	Mercury	Under 18" Over 18"	2 1
Sturgeon	PCBs	Any	Limited <sup>▲</sup>
Walleye	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>
White Bass	PCBs	Any	Limited <sup>▲</sup>
Yellow Perch	Mercury	Any	8

When fishing the river near Lake Huron (page 18) or Lake St. Clair (page 69), please check the lake guidelines, too.

**See which fish are safe to eat from Lake Huron on Page 18.**

\* See page 6

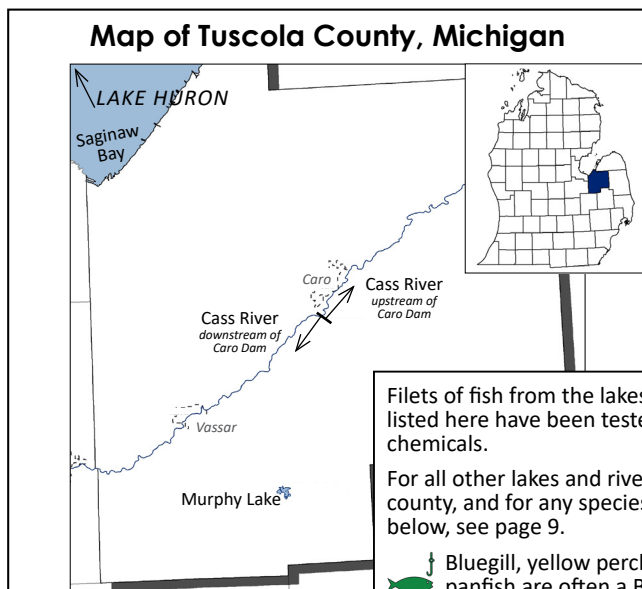
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<sup>2x</sup> See page 8

Best Choice! =



# Tuscola County



Filets of fish from the lakes and rivers listed here have been tested for chemicals.

For all other lakes and rivers in this county, and for any species not listed below, see page 9.

Bluegill, yellow perch, and other panfish are often a Best Choice. See page 9 for guidelines if these fish aren't listed below.

## Cass River

(upstream of Caro Dam)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs & Mercury	Any	2
Largemouth Bass	Mercury	Under 18" Over 18"	2 1
Northern Pike	Mercury	Under 26" Over 26"	2 1
Rock Bass	Mercury	Any	8
Smallmouth Bass	Mercury	Under 18" Over 18"	2 1
Suckers	Mercury	Under 16" Over 16"	4 2

(continued on the next page)

\* See page 6

▲ See page 7

2x See page 8

Best Choice! =

## Cass River

(downstream of Caro Dam)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>
Catfish	Dioxins	Any	6 Per Year <sup>2x</sup>
Rock Bass	Mercury	Any	2

## Murphy Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Northern Pike	Mercury	Under 30" Over 30"	1 6 Per Year

## Saginaw Bay

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Catfish	Dioxins	Any	Limited <sup>▲</sup>
Freshwater Drum	Mercury	Any	1
Lake Trout	PCBs & Dioxins	Under 20"	1 <sup>2x</sup>
	PCBs	20" to 24"	6 Per Year <sup>2x</sup>
		Over 24"	Limited <sup>▲</sup>
Walleye	Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs & Dioxins	Any	Do Not Eat <sup>▲</sup>
Yellow Perch	Dioxins	Any	2 <sup>2x</sup>
All Other Species	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>

See which fish are safe to eat from Lake Huron on Page 18.

\* See page 6

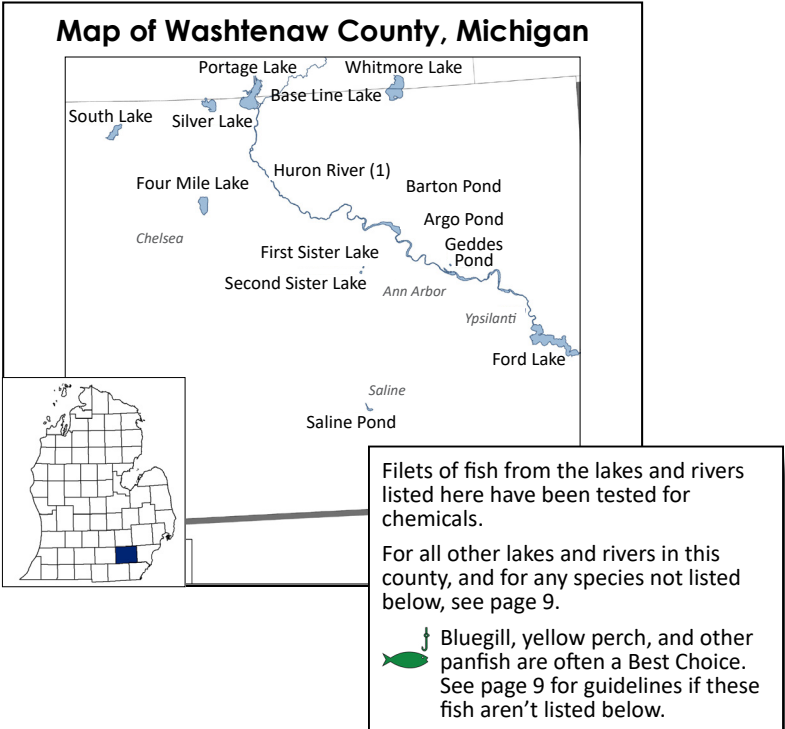
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<sup>2x</sup> See page 8

Best Choice! =



# Washtenaw County



## Argo Pond

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	Do Not Eat <sup>▲</sup>
Carp	PFOS	Any	Do Not Eat <sup>▲</sup>
Catfish	PFOS	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Rock Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Sunfish	PFOS	Any	Do Not Eat <sup>▲</sup>
All Other Species	PFOS	Any	Do Not Eat <sup>▲</sup>

(continued on the next page)

# Washtenaw County (continued)

## Barton Pond

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	Do Not Eat <sup>▲</sup>
Carp	PFOS	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Sunfish	PFOS	Any	Do Not Eat <sup>▲</sup>
All Other Species	PFOS	Any	Do Not Eat <sup>▲</sup>

## Base Line Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Rock Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Sunfish	PFOS	Any	Do Not Eat <sup>▲</sup>
All Other Species	PFOS	Any	Do Not Eat <sup>▲</sup>

## First Sister Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bullhead	Mercury	Any	4

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

# Washtenaw County (continued)

## Ford Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Black Crappie	PFOS	Any	Do Not Eat <sup>▲</sup>
Bluegill	PFOS	Any	Do Not Eat <sup>▲</sup>
Carp	PFOS	Any	Do Not Eat <sup>▲</sup>
Catfish	PFOS	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Rock Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Suckers	PFOS	Any	Do Not Eat <sup>▲</sup>
Sunfish	PFOS	Any	Do Not Eat <sup>▲</sup>
Walleye	PFOS	Any	Do Not Eat <sup>▲</sup>
White Crappie	PFOS	Any	Do Not Eat <sup>▲</sup>
All Other Species	PFOS	Any	Do Not Eat <sup>▲</sup>

## Four Mile Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Northern Pike	Mercury	Under 30" Over 30"	1 6 Per Year

## Geddes Pond

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PFOS	Any	Do Not Eat <sup>▲</sup>
Catfish	PFOS	Any	Do Not Eat <sup>▲</sup>
All Other Species	PFOS	Any	Do Not Eat <sup>▲</sup>

(continued on the next page)

# Washtenaw County (continued)

## Huron River (1)



(downstream of N Wixom Rd to where the river crosses I-275 in Wayne County, includes Base Line Lake, Portage Lake, Barton Pond, Geddes Pond, Argo Pond, and Ford Lake)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
All Species	PFOS	Any	Do Not Eat <sup>▲</sup>

## Portage Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	Do Not Eat <sup>▲</sup>
Carp	PFOS	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Sunfish	PFOS	Any	Do Not Eat <sup>▲</sup>
Walleye	PFOS	Any	Do Not Eat <sup>▲</sup>
All Other Species	PFOS	Any	Do Not Eat <sup>▲</sup>

## Saline Pond

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
 Bluegill	Mercury	Any	12
Largemouth Bass	Mercury	Under 18"	2
		Over 18"	1
Smallmouth Bass	Mercury	Under 18"	2
		Over 18"	1
 Sunfish	Mercury	Any	12

## Second Sister Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bullhead	Mercury	Any	2

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



# Washtenaw County (continued)

## Silver Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury	Any	4
Sunfish	Mercury	Any	4

## South Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Largemouth Bass	Mercury	Under 18" Over 18"	1 6 Per Year
Northern Pike	Mercury	Under 28" Over 28"	1 6 Per Year
Rock Bass	Mercury	Any	2
Smallmouth Bass	Mercury	Under 18" Over 18"	1 6 Per Year

## Whitmore Lake



Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury & PFOS	Any	16
Carp	PCBs	Any	2 <sup>2x</sup>
Northern Pike	Mercury	Under 30" Over 30"	1 6 Per Year
Sunfish	Mercury & PFOS	Any	16



PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

\* See page 6

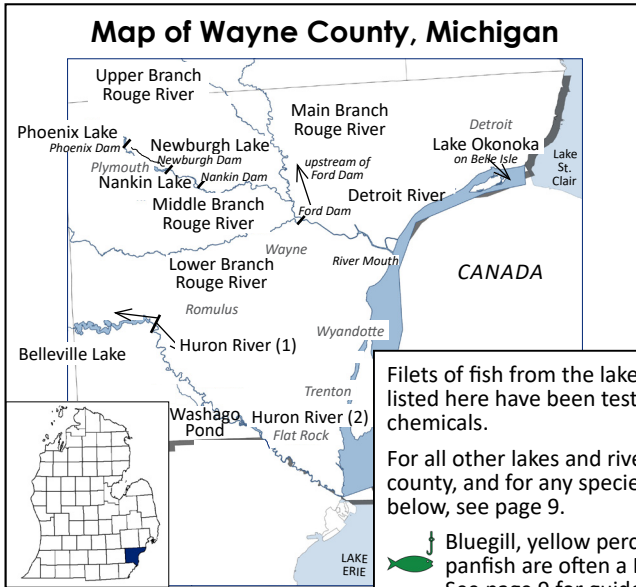
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<sup>2x</sup> See page 8

Best Choice! =




# Wayne County



Files of fish from the lakes and rivers listed here have been tested for chemicals.

For all other lakes and rivers in this county, and for any species not listed below, see page 9.

 Bluegill, yellow perch, and other panfish are often a Best Choice. See page 9 for guidelines if these fish aren't listed below.

## Belleville Lake

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	Do Not Eat <sup>▲</sup>
Carp	PFOS	Any	Do Not Eat <sup>▲</sup>
Catfish	PFOS	Any	Do Not Eat <sup>▲</sup>
Gizzard Shad	PFOS	Any	Do Not Eat <sup>▲</sup>
Largemouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Suckers	PFOS	Any	Do Not Eat <sup>▲</sup>
Sunfish	PFOS	Any	Do Not Eat <sup>▲</sup>
Walleye	PFOS	Any	Do Not Eat <sup>▲</sup>
All Other Species	PFOS	Any	Do Not Eat <sup>▲</sup>

(continued on the next page)

\* See page 6

▲ See page 7

2x See page 8

Best Choice! =



## Wayne County (continued)

### Detroit River

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bullhead	PCBs	Any	2 <sup>2x</sup>
Carp	PCBs & Dioxins	Any	Limited <sup>▲</sup>
Catfish	PCBs & Dioxins	Any	Limited <sup>▲</sup>
Freshwater Drum	PCBs	Any	Limited <sup>▲</sup>
Largemouth Bass	PCBs	Any	Limited <sup>▲</sup>
Northern Pike	Mercury & Dioxins	Any	1
Rock Bass	PCBs & Mercury	Any	4
Smallmouth Bass	PCBs	Any	Limited <sup>▲</sup>
Suckers	PCBs	Under 14"	2 <sup>2x</sup>
		14" to 18"	6 Per Year <sup>2x</sup>
		Over 18"	Limited <sup>▲</sup>
Walleye	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs & Dioxins	Any	Limited <sup>▲</sup>
Yellow Perch	PCBs	Any	4 <sup>2x</sup>

When fishing the river near Lake Erie (page 16) or Lake St. Clair (page 40), please check the lake guidelines, too.

### Huron River (1)

(downstream of N Wixom Rd to where the river crosses I-275 in Wayne County, includes Belleville Lake)


Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
All Species	PFOS	Any	Do Not Eat <sup>▲</sup>

(continued on the next page)




## Huron River (2)

(where the river crosses I-275 in Wayne County to Lake Erie, includes Flat Rock Impoundment)





Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	8
Carp	PCBs & Dioxins	Under 28" Over 28"	Limited <sup>▲</sup> Do Not Eat <sup>▲</sup>
Catfish	PCBs	Any	1 <sup>2x</sup>
Largemouth Bass	Mercury & PCBs	Any	4
Rock Bass	PFOS	Any	Do Not Eat <sup>▲</sup>
Smallmouth Bass	Mercury & PCBs	Any	4
Sunfish	PFOS	Any	8



PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

## Lake Okonoka

(on Belle Isle, Detroit; also includes Lake Muskoday, Lake Tacoma, and the Blue Heron Lagoon )

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Black Crappie	Mercury	Under 8" Over 8"	4 2
Bluegill	Mercury	Any	16
Sunfish	Mercury	Any	16
White Crappie	Mercury	Under 8" Over 8"	4 2

For all other species caught in these lakes, please see the Detroit River, page 72.

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



# Wayne County (continued)

## Lake St. Clair

(if you're fishing within 2 miles of the outlet of the Lange-Revere Canals, see p. 44)



Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	4
Carp	PCBs	Any	Limited <sup>▲</sup>
Catfish	Dioxins	Any	Limited <sup>▲</sup>
Black Crappie	Mercury	Under 9"	8
		Over 9"	4
Freshwater Drum	PCBs & Mercury	Any	2
Largemouth Bass	PCBs & Mercury	Under 17"	2
	Mercury	Over 17"	1
Muskellunge	Mercury	Any	Do Not Eat <sup>▲</sup>
Northern Pike	Mercury	Any	2
Rock Bass	PCBs	Any	1 <sup>2x</sup>
Smallmouth Bass	PCBs & Mercury	Under 17"	2
	Mercury	Over 17"	1
Sturgeon	PCBs	Any	Limited <sup>▲</sup>
Sunfish	PFOS	Any	4
Walleye	PCBs & Dioxins	Any	6 Per Year <sup>2x</sup>
White (Silver) Bass	PCBs	Any	Limited <sup>▲</sup>
White Crappie	Mercury	Under 9"	8
		Over 9"	4
Yellow Perch	Mercury	Any	4



PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



## Rouge River - Lower & Main Branch

(from the Detroit River to Ford Dam)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	Do Not Eat <sup>▲</sup>
Carp	PCBs	Any	Limited <sup>▲</sup>
Largemouth Bass	PCBs	Under 18"	2 <sup>2x</sup>
	PCBs & Mercury	Over 18"	1
Smallmouth Bass	PCBs	Under 18"	2 <sup>2x</sup>
	PCBs & Mercury	Over 18"	1
Sunfish	PFOS	Any	Do Not Eat <sup>▲</sup>
Rock Bass	PCBs & Mercury	Any	4

When fishing near the Detroit River, please check the guidelines on page 72, too.

## Rouge River - Upper & Main Branch

(upstream of the Ford Dam)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Suckers	PCBs	Any	6 Per Year <sup>2x</sup>

## Rouge River - Middle Branch

(from the Ford Dam to the Nankin Dam)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Suckers	PCBs	Any	6 Per Year <sup>2x</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



## Wayne County (continued)

### Rouge River - Middle Branch

(from the Nankin Dam upstream to the Newburgh Dam, includes Nankin Lake)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	6 Per Year <sup>2x</sup>
Northern Pike	PCBs	Any	Limited <sup>▲</sup>
Rock Bass	PCBs & Mercury	Any	4
Suckers	PCBs	Any	1 <sup>2x</sup>

### Rouge River - Middle Branch

(from Newburgh Dam to Phoenix Dam, includes Newburgh Lake)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Carp	PCBs	Any	Limited <sup>▲</sup>
Catfish	PCBs	Any	Limited <sup>▲</sup>
Largemouth Bass	PCBs	Under 18"	6 Per Year <sup>2x</sup>
	PCBs & Mercury	Over 18"	6 Per Year
Northern Pike	PCBs	Any	6 Per Year <sup>2x</sup>
Smallmouth Bass	PCBs	Under 18"	6 Per Year <sup>2x</sup>
	PCBs & Mercury	Over 18"	6 Per Year
Suckers	PCBs	Any	6 Per Year <sup>2x</sup>
All Other Species	PCBs	Any	6 Per Year <sup>2x</sup>

(continued on the next page)

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



## Rouge River - Middle Branch

(upstream of Phoenix Dam, includes Phoenix Lake)

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	Mercury	Any	4
Carp	PCBs	Any	Limited <sup>▲</sup>
Northern Pike	PCBs & Mercury	Any	4
Suckers	PCBs	Any	4 <sup>2x</sup>
Sunfish	Mercury	Any	4

## Washago Pond

Type of Fish	Chemicals of Concern	Size of Fish (length in inches)	MI Servings per Month*
Bluegill	PFOS	Any	2
Sunfish	PFOS	Any	2

PFOS can't be reduced by trimming and cooking. Do not double MI Servings.

**See which fish are safe to eat from Lake Erie on Page 16.**

\* See page 6

▲ See page 7

<sup>2x</sup> See page 8

Best Choice! =



# Southeast Michigan Lakes & Rivers

## Don't see a certain lake or river listed?

For the guidelines to all other lakes and rivers in Southeast Michigan, please see page 9. To get an *ESF Guide* for another region, visit [Michigan.gov/EatSafeFish](http://Michigan.gov/EatSafeFish) or call 800-648-6942.

Argo Pond.....	74
Bad River .....	62
Barton Pond.....	75
Base Line Lake (Livingston Co.) .....	35
Base Line Lake (Washtenaw Co.).....	75
Bass Lake .....	36
Belleville Lake .....	79
Big Seven Lake .....	52
Bishop Lake.....	36
Black Creek.....	32
Black River .....	66
Blue Heron Lagoon (see: Lake Okonoka) .....	81
Cass Lake .....	53
Cass River (Saginaw Co.) .....	62
Cass River (Tuscola Co.).....	72
Cheboyganing Creek.....	63
Chenango Lake .....	36
Chippewa River.....	46
Clear Spring Lake .....	42
Clinton River (Macomb Co.) .....	42
Clinton River (Oakland Co.) .....	53
Croswell Impoundment (Black River) .....	66
Crotched Lake.....	54
Detroit River .....	80
Devils Lake .....	32
Dundee Pond.....	51
Earl Lake .....	36
First Sister Lake.....	75
Flint Park Lake .....	24
Flint River (Genesee Co.).....	24

Flint River (Lapeer Co.) ..... 30

Flint River (Saginaw Co.) ..... 63

Ford Lake ..... 76

Fort Gratiot Pond..... 69

Four Mile Lake ..... 76

Gallagher Lake ..... 37

Galloway Lake..... 54

Geddes Pond ..... 76

Gilkey Creek (Flint River) ..... 25

Haithco Lake ..... 63

Heron Lake..... 54

Hoisington Lake ..... 37

Holloway Reservoir..... 25

Hubbell Pond ..... 54

Huron River (Livingston Co.) ..... 37

Huron River (Monroe Co.)..... 49

Huron River (Oakland Co.) ..... 55

Huron River (Washtenaw Co.)..... 77

Huron River (Wayne Co.) ..... 80

Island Lake ..... 37

Kawkawlin River ..... 21

Kearsley Creek & Reservoir ..... 26

Kent Lake ..... 55

Lake Adrian..... 33

Lake Erie ..... 16

Lake Fenton ..... 26

Lake Hudson ..... 33

Lake Huron ..... 18

Lake Minnewanna ..... 31

Lake Muskoday (see: Lake Okonoka) ..... 81

Lake Nepessing..... 31

Lake Okonoka ..... 81

Lake Orion ..... 55

Lake Pleasant..... 31

Lake Ponemah ..... 26

Lake St. Clair (Macomb Co.) ..... 43

Lake St. Clair (St. Clair Co.) ..... 69

Lake St. Clair (Wayne Co.) ..... 82

Lake St. Clair: Special Notice (Macomb Co.)..... 44

Lake Tacoma (see: Lake Okonoka) ..... 81

Lakeville Lake..... 56

Lange-Revere Canals ..... 45

Les Cheneaux Island Area & Thunder Bay .....	19
Lobdell Lake .....	27
Long Lake .....	56
Loon Lake (Livingston Co.) .....	38
Loon Lake (Oakland Co.) .....	56
Lower Trout Lake .....	57
Maceday Lake .....	57
Mann Creek (Sloan Lake) .....	40
Middle Straits Lake .....	57
Milford Pond .....	57
Moraine Lake .....	38
Mott Reservoir (Flint River) .....	27
Murphy Lake .....	73
Nankin Lake (Rouge River) .....	84
Newburgh Lake (Rouge River) .....	84
N. Maumee Bay (Lake Erie) .....	17
N. Maumee Bay (Monroe Co.) .....	50
Norton Creek .....	57
Orchard Lake .....	58
Ore Lake .....	38
Osmun Lake .....	58
Ottawa River .....	50
Otter/Sylvan Lakes .....	58
Paint Creek .....	59
Patterson Lake .....	39
Pettibone Creek .....	57
Phoenix Lake (Rouge River) .....	85
Pine River (Midland Co.) .....	46
Pine River (St Clair Co.) .....	70
Plum Creek .....	50
Pontiac Lake .....	59
Portage Lake (Livingston Co.) .....	39
Portage Lake (Washtenaw Co.) .....	77
Proud Lake .....	59
River Raisin (Lenawee Co.) .....	33
River Raisin (Monroe Co.) .....	51
Rouge River (Oakland Co.) .....	59
Rouge River (Wayne Co.) .....	83
Saginaw Bay .....	19
Saginaw Bay (Bay Co.) .....	21
Saginaw Bay (Huron Co.) .....	28
Saginaw Bay (Tuscola Co.) .....	73

Saginaw River (Bay Co.) ..... 22

Saginaw River (Saginaw Co.) ..... 63

Saline Pond..... 77

Sand Lake..... 34

Sandy Bottom Lake..... 39

Sanford Lake ..... 47

Schoolhouse Lake ..... 59

Sebawaing River ..... 29

Second Sister Lake ..... 77

Shiawassee River (Livingston Co.)..... 39

Shiawassee River (Oakland Co.) ..... 60

Shiawassee River (Saginaw Co.) ..... 64

Shiawassee River (Shiawassee Co.)..... 67

Silver Lake..... 78

Sloan Lake..... 40

South Lake ..... 78

Squaw Lake..... 60

St. Clair River ..... 71

Stony Creek (Clinton River) ..... 43

Stony Creek Lake ..... 45

Strawberry Lake..... 40

Terry Lake ..... 60

Thompson Lake ..... 40

Thread Creek & Lake ..... 27

Tipsico Lake ..... 60

Tittabawassee River (Midland Co.) ..... 47

Tittabawassee River (Saginaw Co.)..... 64

Tobico Marsh ..... 23

Tull Lake..... 60

Union Lake..... 61

Walled Lake ..... 61

Wamplers Lake ..... 34

Washago Pond..... 85

White Lake..... 61

Whitewood Lakes ..... 40

Whitmore Lake (Livingston Co.)..... 41

Whitmore Lake (Washtenaw Co.) ..... 78

Woodland Lake..... 41

Zukey Lake ..... 41

# What Are the Chemicals of Concern?

Chemicals that cause Michigan's Eat Safe Fish guidelines are DDT, dioxins, mercury, PCBs, PFOS, selenium, and toxaphene. A lot of these chemicals were put into our environment before we knew the long-term problems these chemicals caused.

Even though many of these chemicals are no longer used, they still remain in our environment. These chemicals can travel through the air and be carried by rain run-off and storm drains into our lakes, rivers, and wetlands. Once these chemicals are in the water, they sink to the bottom and become a part of the fish food chain.

The U.S. Clean Water Act and U.S. Clean Air Act have cut back on a lot of this pollution. In fact, the amount of DDT, dioxins, PCBs, and toxaphene in our fish are slowly going down. However, mercury continues to be a worldwide problem and newer chemicals, like PFOS, may continue to be found in the environment for a long time.

Chemical of Concern	What is it?	Potential Health Problems
<b>DDT</b> (dichlorodiphenyl-trichloroethane)	<ul style="list-style-type: none"><li>• was one of the first modern insecticides</li><li>• was banned in 1972</li></ul>	<ul style="list-style-type: none"><li>• linked to the development of cancer</li><li>• linked to the development of diabetes</li></ul>
<b>Dioxins</b>	<ul style="list-style-type: none"><li>• are not made on purpose</li><li>• are created when chlorine chemicals are made or used</li><li>• can be released when things that have chlorine in them - like paper or plastic - are burned</li><li>• also can be released from old or poorly contained waste sites or intentional dumping</li></ul>	<ul style="list-style-type: none"><li>• linked to the development of cancer</li><li>• fertility can be harmed</li><li>• thyroid function can be harmed</li></ul>

(continued on the next page)

## Chemicals of Concern (continued from page 90)

Chemical of Concern	What is it?	Potential Health Problems
<b>Mercury</b>	<ul style="list-style-type: none"> <li>• is a natural element</li> <li>• can be released from smokestacks of coal-fired power plants and other industry</li> </ul>	<ul style="list-style-type: none"> <li>• brain development can be harmed in fetuses and children</li> <li>• heart function can be harmed in older adults</li> <li>• immune system can be harmed</li> </ul>
<b>PCBs (polychlorinated biphenyls)</b>	<ul style="list-style-type: none"> <li>• were used in electrical equipment - like transformers</li> <li>• were found in hydraulic oils</li> </ul>	<ul style="list-style-type: none"> <li>• brain development can be harmed in fetuses and children</li> <li>• linked to the development of cancer</li> <li>• linked to the development of diabetes</li> <li>• immune system can be harmed</li> </ul>
<b>PFOS (perfluorooctane sulfonate)</b>	<ul style="list-style-type: none"> <li>• is used for waterproofing clothes, in fire-fighting foams, papers and packaging, cleaning products, and pesticides</li> <li>• is now rarely used in the United States</li> </ul>	<ul style="list-style-type: none"> <li>• thyroid function can be harmed</li> <li>• brain development can be harmed in fetuses and children</li> </ul>
<b>Selenium</b>	<ul style="list-style-type: none"> <li>• is a natural element</li> <li>• is needed for your body to function, but too much is harmful</li> <li>• through mining activities, selenium-rich rock and water got into lakes and rivers</li> </ul>	<ul style="list-style-type: none"> <li>• hair loss</li> <li>• loss of fingernails</li> <li>• fatigue</li> <li>• irritability</li> <li>• mild nerve damage</li> </ul>
<b>Toxaphene</b>	<ul style="list-style-type: none"> <li>• was an insecticide for cotton and vegetables and on livestock and poultry</li> <li>• was sometimes added to lakes to kill unwanted fish</li> <li>• was banned in 1990</li> </ul>	<ul style="list-style-type: none"> <li>• immune system can be harmed</li> </ul>

# NOTES

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# Other Regional Eat Safe Fish Guides

Call 800-648-6942 or visit  
[Michigan.gov/EatSafeFish](https://Michigan.gov/EatSafeFish)  
to get a free copy of the  
***Eat Safe Fish Guides***  
for other regions in Michigan.

