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2017 Ohio Sport Fish Consumption Advisory

Introduction

This document provides information about fish consumption advisories issued by the Ohio Department of Health for sport fish caught in Ohio waters. The Department of Health, in cooperation with the Ohio Environmental Protection Agency and the Ohio Department of Natural Resources, issues this advice under Ohio law (Ohio Revised Code Chapter 3701).

Use this document to get important information about whether fish consumption is safe where you fish. If you are an angler, or someone working with an organization concerned with providing advisory information to the public, you are welcome to contact us directly through the contacts listed below.

Ohio Department of Health — (800) 755-4769
Ohio EPA, Public Interest Center — (614) 644-2160

Email — fishmail@epa.ohio.gov

Write to:
Ohio EPA
Division of Surface Water
Standards and Technical Support Section
P.O. Box 1049
Columbus, OH 43216-1049

Note: Fish consumption advisories are subject to change based on new data.

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Overall Advice



Fish can be part of a healthy, balanced diet. Fish are generally low in fat and high in protein. Fish contain many vitamins and minerals, and are the primary food source for long-chain omega-3 fatty acids. Studies suggest that omega-3 fatty acids are important during fetal brain and eye development, and may help to prevent heart disease in adults. Health experts recommend that regular consumption of fish be included as part of a healthy diet.



In general, use the following table to guide your fish consumption choices:

Two meals/week	Yellow perch, sunfish (e.g., bluegill, green, longear, redear)*
One meal/week	All fish not specified in this table
One meal/month	Flathead catfish 23" and over, northern pike 23" and over, steelhead trout from Lake Erie and its tributaries

*Consumption of these species should be limited to one meal/week from: Ashtabula River, Cuyahoga River, Mahoning River, Nesmith Lake, Ohio Canal, Ohio River and West Branch Reservoir; and as otherwise indicated in the Limit Your Meals from These Waters section of this advisory.

For specific water bodies, check the Limit Your Meals from These Waters section of this advisory. Consumption of Ohio sport fish caught from these water bodies should be limited to one meal/month or one meal every two months, as listed in the Limit Your Meals from These Waters section.

In addition, some species of Ohio sport fish caught at eight locations **should not be eaten at all**. The maximum recommended frequency for eating those fish is identified in the advisory table as **Do Not Eat**. A table listing only the Do Not Eat fish is shown below and at epa.ohio.gov/dsw/fishadvisory/index.aspx.

Body of Water	Area Under Advisory	Species	Contaminant
Dicks Creek	Cincinnati-Dayton Road, Middletown to the Great Miami River (Butler County)	All Species	PCBs
Great Miami River	Lowhead Dam at Monument Avenue (Dayton) to mouth (Ohio River) (Butler, Hamilton, Montgomery, Warren Counties)	All Suckers	PCBs
Lake Nesmith	All Waters (Summit County)	Channel Catfish	PCBs
Little Scioto River	State Route 739, near Marion to Holland Road, near Marion (Marion County)	All Species	PAHs
Ohio River	Pennsylvania Border (East Liverpool) to Belleville Lock (Athens, Belmont, Columbiana, Jefferson, Meigs, Monroe, Washington Counties)	Channel Catfish 18" and over	PCBs
Portage Canal (a.k.a. Ohio Canal)	All Waters (Summit County)	Channel Catfish	PCBs
Summit Lake	All Waters (Summit County)	Channel Catfish	PCBs
Tuscarawas River	State Route 416 (New Philadelphia) to mouth (Muskingum River) (Coshocton, Tuscarawas Counties)	Flathead Catfish 26" and over	PCBs

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These advisories protect pregnant women, women of child-bearing age, nursing women, infants and children age 15 and younger.

The general advisories and some of the specific advisories are based on mercury contamination.

Don't wade or swim at these locations

Another advisory is issued that cautions against skin contact. The waters and/or sediments in these areas have high levels of contaminants. It is recommended that a person not swim or wade in these water body sections. See the Do Not Wade or Swim in These Waters section for the locations in this advisory.

Statewide/Nationwide Mercury Advisory for Sensitive Populations

The statewide mercury advisory, issued in 1997, is primarily for women of child-bearing age and children age 15 and under. They are advised to eat no more than one meal/week of fish (any species) from any Ohio body of water, except those listed as safe to eat two meals/week, or no more than the number of meals specified for the more restrictive advisories listed in the Limit Your Meals from These Waters section. Although the one meal/week advice applies mainly to these sensitive populations, the general advisory issued in 2003 recommends that everyone follow that advice.

In 2017, the United States Environmental Protection Agency (U.S. EPA) and the Food and Drug Administration (FDA) issued advice to help women who are pregnant or may become pregnant – as well as breastfeeding mothers and parents of young children – make informed choices when it comes to store-bought fish and fish served in restaurants (including shellfish) that are healthy and safe to eat.

To help these consumers more easily understand the types of fish to select, the agencies have created an easy-to-use reference chart that sorts 62 types of fish into three categories:

- Best choices (eat two to three servings a week) – fish in this category make up nearly 90 percent of fish eaten in the United States
- Good choices (eat one serving a week)
- Fish to avoid

For adults, a typical serving is four ounces of fish, measured before cooking. Serving sizes for children should be smaller and adjusted for their age and total calorie needs. It is recommended that children eat fish once or twice a week, selected from a variety of fish types.

The updated advice cautions parents of young children and certain women to avoid seven types of fish that typically have higher mercury levels: tilefish from the Gulf of Mexico; shark; swordfish; orange roughy; bigeye tuna; marlin; and king mackerel. Choices lower in mercury include some of the most commonly eaten fish, such as shrimp, pollock, salmon, canned light tuna, tilapia, catfish and cod.

For details, including a link to the reference chart and questions and answers in both English and Spanish, visit epa.gov/fish-tech/2017-epa-fda-advice-about-eating-fish-and-shellfish.

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Limit Your Meals from These Waters

The advisory table lists water body areas in which one or more species of fish are contaminated.

- Fish with low levels of contaminants are safe to eat, provided the trimming, cooking and meal frequency advice is followed. The maximum recommended frequencies for eating those fish are included in the advisory table.
- Fish with high levels of contaminants should not be eaten. The maximum recommended frequency for eating those fish is identified in the advisory table as **Do Not Eat**. A table listing only the Do Not Eat fish is available in the Overall Advice section and at epa.ohio.gov/dsw/fishadvisory/index.aspx.
- In addition to the water bodies in the advisory table, there is a statewide advisory to eat no more than one meal/week of any sport fish caught from any water body in Ohio, except for those with two meal/week or unrestricted advisories in place.

How to Use the Advisory Table

Column 1	Column 2	Column 3	Column 4	Column 5
Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Nemo River	U.S. Route 71 to Xeno River	Halibut 20" and over	One/two months	Mercury
		Halibut under 20"	One/month	Mercury

- In columns 1 and 2, find the body of water and location in which you are fishing.
- In column 3, find the kind of fish you have caught. If a length is noted, measure the fish from the tip of the nose to the end of the tail fin. See pictures of many common Ohio sport fish at <http://wildlife.ohiodnr.gov/species-and-habitats/species-guide-index>.
- In column 4, find the maximum recommended meal frequency for the size and type of fish. One/week (52 meals/year), one/month (12 meals/year) and one/two months (six meals/year) is advice for how long to wait before eating your next meal of sport fish.
- In column 5, find the contaminant causing the advisory.

Note: If your water body of interest is not listed in the advisory table, please refer to the table in the Overall Advice section of this booklet for consumption advice. Lake Erie walleye are in the one meal a week advice category.

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Advisory Table

Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Acton Lake	All waters (Butler, Preble counties)	Channel Catfish	Two/week	Mercury
		Bluegill Sunfish, Common Carp, Saugeye	Unrestricted	
Adams Lake	All waters (Adams County)	Bluegill Sunfish, Largemouth Bass	One/month	Mercury
Ashtabula River	Hilldom Road to U.S. Route 20 (Prospect Road) (Ashtabula County)	Largemouth Bass	One/month	Mercury
		Smallmouth Bass	One/month	PCBs
	U.S. Route 20 (Prospect Road) to mouth (Lake Erie) (Ashtabula County)	Common Carp, Freshwater Drum	One/month	PCBs
Atwood Lake	All waters (Carroll, Tuscarawas counties)	Common Carp, Largemouth Bass	Two/week	Mercury
		Bluegill Sunfish, Saugeye, White Crappie	Unrestricted	
Auglaize River	U.S. Route 33, Wapakoneta to Maumee River, Defiance (Allen, Auglaize, Defiance, Paulding, Putnam counties)	Freshwater Drum, Smallmouth Bass, Rock Bass	One/month	Mercury
Bad Creek	All waters (Fulton County)	Channel Catfish	Two/week	Mercury
Belmont Lake	All waters (Belmont County)	Channel Catfish	Two/week	Mercury
		Largemouth Bass, Saugeye	One/month	Mercury
Berlin Lake	All waters (Mahoning, Portage, Stark counties)	Channel Catfish	One/month	PCBs
		Common Carp	One/month	Lead, PCBs
Big Darby Creek	U.S. Route 42 (Plain City) to Alkire Road (Georgesville) (Franklin, Madison, Union counties)	Channel Catfish	One/month	Mercury, PCBs
		Smallmouth Bass	One/month	Mercury
	Alkire Road (Georgesville) to mouth (Scioto River) (Franklin, Pickaway counties)	Channel Catfish	One/month	Mercury, PCBs
Black Fork Mohican River	State Route 39 (Melco) to mouth (Mohican River) (Ashland, Richland counties)	Common Carp	One/month	PCBs
		Freshwater Drum	Two/week	Mercury
	All waters (Ashland, Richland counties)	Channel Catfish	One/month	PCBs
		Rock Bass	One/month	Mercury

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Black River	Interstate 80 to Homewood Park (Lorain) (Lorain County)	Channel Catfish	One/month	PCBs
		Freshwater Drum	One/month	Mercury, PCBs
	Homewood Park (Lorain) to Erie St./US Route 6 (Lorain County)	Common Carp, Channel Catfish	One/month	PCBs
		Freshwater Drum	One/month	Mercury, PCBs
	Erie St./US Route 6 to mouth (Lake Erie) (Lorain County)	Common Carp	One/two months	PCBs
		Channel Catfish	One/month	PCBs
Freshwater Drum		One/month	Mercury, PCBs	
Bokes Creek	All waters (Logan County)	Smallmouth Bass	One/month	Mercury
Buckeye Lake	All waters (Fairfield, Licking, Perry counties)	Black Crappie, Saugeye	Two/week	Mercury
Chagrin River	I-90 to mouth (Lake Erie) (Lake County)	Rock Bass, Smallmouth Bass	One/month	Mercury
Chippewa Lake	All waters (Medina County)	Common Carp, White Crappie	Two/week	Mercury
		Bluegill Sunfish, Channel Catfish	Unrestricted	
C.J. Brown Reservoir	All waters (Clark County)	Walleye, Common Carp	Two/week	Mercury
Clear Creek	Clearport Road (Clearport) to mouth (Hocking River) (Fairfield, Hocking counties)	Common Carp	One/month	Mercury
Clear Fork Reservoir	All waters (Richland County)	Largemouth Bass	Two/week	Mercury
Conneaut Creek	All waters (Ashtabula County)	Smallmouth Bass	One/month	Mercury
Cross Creek	Reeds Mill Road to mouth (Ohio River) (Jefferson County)	Channel Catfish	One/month	Mercury, PCBs
		Freshwater Drum, Smallmouth Bass	One/month	Mercury
Cuyahoga River	State Route 87 (Russell Park) to Ohio Edison Dam Pool (Geauga, Portage, Summit counties)	Common Carp	One/month	PCBs
		Black Crappie, White Sucker 16" and over	One/month	Mercury
	Ohio Edison Dam Pool to mouth (Lake Erie) (Cuyahoga, Summit counties)	Brown Bullhead, Channel Catfish, Common Carp	One/month	PCBs
		White Sucker 16" and over	One/month	Mercury
Deer Creek	Interstate 70 to mouth (Scioto River) (Fayette, Madison, Pickaway, Ross counties)	Channel Catfish, White Crappie	Two/week	Mercury

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Deer Creek Lake	All waters (Fayette, Pickaway counties)	Common Carp, Largemouth Bass, White Crappie	Two/week	Mercury
Dicks Creek	Cincinnati-Dayton Road, Middletown to the Great Miami River (Butler County)	All Species	Do Not Eat	PCBs
Dillon Lake	All waters (Muskingum County)	Common Carp, Largemouth Bass	Two/week	Mercury
Dow Lake	All waters (Athens County)	Channel Catfish, Largemouth Bass	One/month	Mercury
Duck Creek	Township Road 329 (Stanleyville) to State Route 26 (Norwood) (Washington County)	Common Carp, Sauger	One/month	Total DDT
	State Route 26 (Norwood) to mouth (Ohio River) (Washington County)	Common Carp, Sauger Black Crappie, Freshwater Drum, Saugeye 16" and over	One/month One/month	Total DDT Mercury
East Branch Black River	Richman Road (Lodi) to mouth (Black River) (Lorain, Medina counties)	Common Carp 23" and over, Rock Bass, Smallmouth Bass, Yellow Bullhead	One/month	Mercury
East Branch Rocky River	State Route 3 (North Royalton) to mouth (Rocky River) (Cuyahoga County)	Rock Bass	One/month	Mercury
East Fork Lake (Harsha Lake)	All waters (Clermont County)	Largemouth Bass	One/month	Mercury
East Fork Little Miami River	All waters (Brown, Clermont, Clinton, Hamilton, Highland counties)	Channel Catfish, Common Carp, Flathead Catfish, Rock Bass, Smallmouth Bass, Spotted Bass	One/month	Mercury
Eastwood Lake	All waters (Montgomery County)	Common Carp	One/month	PCBs
Fish Creek	All waters (Williams County)	Rock Bass	One/month	Mercury
Findley Reservoir #2	All waters (Hancock County)	Walleye, White Bass	Unrestricted	
Ford (a.k.a. Hamilton) Hydraulic Canal	All waters (Butler County)	Channel Catfish, Common Carp	One/month	PCBs
Forked Run Lake	All waters (Meigs County)	Common Carp, Largemouth Bass, White Crappie	One/month	Mercury
Four Mile Creek	Acton Lake to Sevenmile Creek (Butler County)	Smallmouth Bass 17" and over	One/month	Mercury
Grand Lake St. Marys	All waters (Auglaize, Mercer counties)	Largemouth Bass	Two/week	Mercury

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Grand River	Lake Estabrook (Parkman) to Sweitzer Road (Camp Yakewi) (Ashtabula, Geauga, Trumbull counties)	Common Carp 22" and over	One/month	PCBs
		Freshwater Drum, Largemouth Bass, Rock Bass, Silver Redhorse, Smallmouth Bass, Walleye, Yellow Bullhead	One/month	Mercury
	Sweitzer Road (Camp Yakewi) to State Route 2 (Painesville) (Ashtabula, Lake counties)	Common Carp 22" and over, Rainbow Trout	One/month	PCBs
		Freshwater Drum, Largemouth Bass, Rock Bass, Silver Redhorse, Smallmouth Bass, Walleye, Yellow Bullhead	One/month	Mercury
	State Route 2 (Painesville) to mouth (Lake Erie) (Lake County)	Common Carp 18" and over, Rainbow Trout	One/month	PCBs
		Freshwater Drum, Largemouth Bass, Silver Redhorse, Smallmouth Bass, Yellow Bullhead	One/month	Mercury
Great Miami River (continued on next page)	Downstream of Indian Lake to Lowhead Dam at Monument Avenue (Dayton) (Logan, Miami, Montgomery, Shelby counties)	Common Carp, Channel Catfish, Flathead Catfish	One/month	PCBs
		Largemouth Bass, Saugeye, Smallmouth Bass, White Bass	One/month	Mercury
	Lowhead Dam at Monument Avenue (Dayton) to State Route 73 near Middletown (Butler, Montgomery, Warren counties)	All Suckers	Do Not Eat	PCBs
		Flathead Catfish	One/month	PCBs, Mercury
		Common Carp, Channel Catfish	One/month	PCBs
	State Route 73 near Middletown to Harrison Pike (Miami town) (Butler, Hamilton, Warren counties)	Largemouth Bass, Saugeye, Smallmouth Bass, White Bass	One/month	Mercury
		All Suckers	Do Not Eat	PCBs
		Striped Bass Hybrid	One/two months	*PCBs, Lead
		Flathead Catfish	One/month	PCBs, Mercury
		Channel Catfish, Common Carp, Freshwater Drum, Smallmouth Buffalo	One/month	PCBs

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Great Miami River (continued)	State Route 73 near Middletown to Harrison Pike (Miami town) (Butler, Hamilton, Warren counties)	Largemouth Bass, Saugeye, Smallmouth Bass, White Bass	One/month	Mercury
	Harrison Pike (Miami town) to mouth (Ohio River) (Hamilton County)	All Suckers	Do Not Eat	PCBs
		Striped Bass Hybrid	One/two months	*PCBs, Lead
		Flathead Catfish	One/month	PCBs, Mercury
		Channel Catfish, Common Carp, Smallmouth Buffalo	One/month	PCBs
	Freshwater Drum 16" and over, Largemouth Bass, Saugeye, White Bass	One/month	Mercury	
Greenville Creek	All waters (Darke, Miami counties)	Largemouth Bass, Smallmouth Bass	One/month	Mercury
Griggs Reservoir	All waters (Franklin County)	Common Carp	Two/week	Mercury
Hamilton Hydraulic Canal	See Ford Hydraulic Canal (Butler County)			
Highlandtown Lake	All waters (Columbiana County)	Largemouth Bass	One/month	Mercury
Hocking River	Rock Mill Road (Rock Mill) to State Route 33 (The Plains) (Athens, Fairfield, Hocking counties)	Common Carp	One/month	PCBs
		Smallmouth Bass	One/month	Mercury
		Black Crappie	Unrestricted	
	State Route 33 (The Plains) to U.S. Route 50/State Route 32 (Athens) (Athens, Hocking counties)	Common Carp, Freshwater Drum	One/month	PCBs
		Walleye, Smallmouth Bass	One/month	Mercury
		Black Crappie	Unrestricted	
	U.S. Route 50/State Route 32 (Athens) to mouth (Ohio River) (Athens County)	Common Carp, Freshwater Drum	One/month	PCBs
		Spotted Bass	One/month	Lead
Smallmouth Bass		One/month	Mercury	
	Black Crappie	Unrestricted		
Huron River	All waters (Erie, Huron counties)	Common Carp, Smallmouth Buffalo, Channel Catfish, Flathead Catfish	One/month	PCBs
		Rock Bass, White Crappie	Two/week	Mercury
		Freshwater Drum	One/month	Mercury

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Indian Lake	All waters (Logan County)	Black Crappie, Channel Catfish, Common Carp, Largemouth Bass	Two/week	Mercury
Jefferson Lake	All waters (Jefferson County)	Largemouth Bass	One/month	Mercury
Killdeer Pond #30	All waters (Wyandot County)	Largemouth Bass	One/month	Mercury
Kiser Lake	All waters (Champaign County)	Largemouth Bass	Two/week	Mercury
		Bluegill Sunfish	Unrestricted	
Knox Lake	All waters (Knox County)	Common Carp, White Crappie	Two/week	Mercury
		Channel Catfish	Unrestricted	
Kokosing River	County Road 13/Green Valley Road (Mount Vernon) to mouth (Walhonding River) (Coshocton, Knox counties)	Rock Bass 8" and over, Smallmouth Bass 15" and over	One/month	Mercury
LaDue Reservoir	All waters (Geauga County)	Brown Bullhead, Largemouth Bass	Two/week	Mercury
Lake Erie	All waters (Ashtabula, Cuyahoga, Erie, Lake, Lorain, Lucas, Ottawa, Sandusky counties)	Common Carp 27" and over	One/two months	PCBs
		Smallmouth Bass	One/month	PCBs and Mercury
		Channel Catfish, Common Carp under 27", Freshwater Drum, Lake Trout, Steelhead Trout, White Bass, Whitefish 19" and over, White Perch	One/month	PCBs
		Brown Bullhead	One/month	Mercury
Lake Erie Tributaries	All waters (Ashtabula, Cuyahoga, Erie, Lake, Lorain, Lucas, Ottawa, Sandusky counties)	Steelhead Trout	One/month	PCBs
Lake Hope	All waters (Vinton County)	Largemouth Bass	One/month	Mercury
Lake La Su An	All waters (Williams County)	Largemouth Bass	One/month	Mercury
Lake Lavere	All waters (Williams County)	Largemouth Bass	One/month	Mercury
Lake Logan	All waters (Hocking County)	Common Carp, White Crappie	Two/week	Mercury
		Bluegill Sunfish, Channel Catfish, Saugeye	Unrestricted	

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Lake Loramie	All waters (Shelby, Auglaize counties)	Common Carp, Largemouth Bass	Two/week	Mercury
		Channel Catfish, Saugeye, White Crappie	Unrestricted	
Lake Milton	All waters (Mahoning County)	Common Carp	One/month	PCBs
Lake Nesmith	All waters (Summit County)	Common Carp	One/month	PCBs
		Channel Catfish	Do Not Eat	PCBs
Lake Sue	All waters (Williams County)	Largemouth Bass	One/month	Mercury
Lake White	All waters (Pike County)	Common Carp	Two/week	
Licking River	Adjacent Summit Street (Newark) to mouth (Muskingum River) (Licking, Muskingum counties)	Channel Catfish	One/month	PCBs
Little Beaver Creek	Upstream of Bell School Road (Williamsport) to Pennsylvania State Line (near Grimms Bridge Road) (Columbiana County)	Channel Catfish	One/two months	PCBs
		Common Carp, Sauger	One/month	PCBs
		Smallmouth Bass 12" and over	One/month	Mercury
Little Miami River	Lower Bellbrook Road (Bellbrook) to mouth (Ohio River) (Clermont, Greene, Hamilton, Warren counties)	Common Carp 24" and over, Freshwater Drum 16" and over, Sauger, Silver Redhorse, Smallmouth Bass	One/month	Mercury
Little Muskingum River	Hill's Covered Bridge to mouth (Ohio River) (Washington County)	Freshwater Drum	One/month	Mercury, PCBs
		Spotted Bass, Smallmouth Bass	One/month	Mercury
Little Scioto River	State Route 739, near Marion to Holland Road, near Marion (Marion County)	All Species	Do Not Eat	PAHs
Little Scioto River (Southeast Ohio River tributary)	Millstone Road to mouth (Scioto River) (Scioto County)	Channel Catfish	One/month	PCBs, Mercury
		Rock Bass, Smallmouth Bass, Spotted Bass	One/month	Mercury
Mad River	U.S. Route 36 (Urbana) to mouth (Great Miami River) (Champaign, Clark, Greene, Montgomery counties)	Channel Catfish, Common Carp	One/month	PCBs
		Largemouth Bass	One/month	Mercury

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant	
Mahoning River	Rockhill Avenue NE (Alliance) to Pennsylvania State Line (Mahoning, Portage, Stark, Trumbull counties)	Channel Catfish	One/two months	PCBs	
		Smallmouth Bass, Walleye	One/month	*Mercury, PCBs	
		Northern Pike, Rock Bass, Bluegill Sunfish, Common Carp	One/month	PCBs	
		Yellow Perch	Week	PCBs	
Maumee River	Indiana State Line to Defiance (Defiance, Paulding counties)	Freshwater Drum, Smallmouth Bass, Smallmouth Buffalo, Common Carp, Flathead Catfish	One/month	Mercury, PCBs	
		Channel Catfish	One/month	PCBs	
		Freshwater Drum, Smallmouth Bass, Smallmouth Buffalo, Common Carp, Flathead Catfish	One/month	Mercury, PCBs	
	Defiance to Perrysburg (Defiance, Henry, Lucas, Wood counties)	Channel Catfish	One/month	PCBs	
		Freshwater Drum, Smallmouth Bass, Smallmouth Buffalo, Common Carp, Flathead Catfish	One/month	Mercury, PCBs	
	Perrysburg to Interstate 75 (Lucas, Wood counties)	Channel Catfish	One/two months	PCBs	
		Freshwater Drum, Smallmouth Bass, Smallmouth Buffalo, Common Carp, Flathead Catfish	One/month	Mercury, PCBs	
	Interstate 75 to mouth (Lake Erie) (Lucas County)	Channel Catfish	One/two months	PCBs	
		Smallmouth Bass	One/month	PCBs	
		Freshwater Drum, Smallmouth Buffalo, Common Carp, Flathead Catfish	One/month	Mercury, PCBs	
	Meadowbrook Lake	Perrysburg to mouth (Lake Erie) (Lucas, Wood counties)	Channel Catfish	One/two months	PCBs
	Middle Fork Little Beaver Creek [^]	Allen Road (Salem) to State Route 14 (Millville) (Columbiana, Mahoning counties)	Freshwater Drum, Smallmouth Bass, Smallmouth Buffalo, Common Carp, Flathead Catfish	One/month	Mercury, PCBs
Sauger			One/month	PCBs	
Freshwater Drum			One/month	Mercury	
State Route 14 (Millville) to mouth (Little Beaver Creek) (Columbiana County)		Common Carp, Sauger	One/month	PCBs	
		Freshwater Drum	One/month	Mercury	

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Mill Creek (Ashtabula)	South Denmark Road (Jefferson) to mouth (Grand River) (Ashtabula County)	Largemouth Bass, Rock Bass	One/month	Mercury
Mill Creek (Cincinnati)	Interstate 275 to the Ohio River (Hamilton County)	Striped Bass Hybrid	One/month	PCBs
Mill Creek (Marysville)	State Route 36 to mouth (Scioto River)	Saugeye	Two/week	Mercury
		Smallmouth Bass	One/month	Mercury
Mohican River	County Highway 23 (Spellacy) to mouth (Walhonding River) (Coshocton, Holmes, Knox counties)	Common Carp	One/month	PCBs
		Rock Bass	One/month	Mercury
Mosquito Creek	All waters (Trumbull County)	Northern Pike	One/month	Mercury
		Common Carp	One/month	PCBs
		Bluegill Sunfish	One/week	PCBs, lead
Muskingum River	Zanesville Dam (Zanesville) to mouth (Ohio River) (Morgan, Muskingum, Washington counties)	Smallmouth Buffalo 24" and over	One/two months	PCBs
		Channel Catfish, Common Carp, Smallmouth Buffalo under 24", White Bass	One/month	PCBs
	Flathead Catfish 24" and over, Saugeye, Striped Bass Hybrid	One/month	Mercury, PCBs	
	Zanesville Dam (Zanesville) to mouth (Ohio River) (Morgan, Muskingum, Washington counties)	Freshwater Drum, Spotted Bass	One/month	Mercury
New Lyme Lake	All waters (Ashtabula County)	Largemouth Bass	One/month	Mercury
Nimishillen Creek	All waters (Stark, Summit, Tuscarawas counties)	Common Carp	One/month	PCBs
		Green Sunfish	Unrestricted	
North Branch Portage River	All waters (Wood County)	Common Carp	One/month	PCBs
North Turkeyfoot Creek	All waters (Henry County)	Channel Catfish	Two/week	Mercury
		Common Carp	Unrestricted	
Ohio Brush Creek	State Route 73 (Louden) to mouth (Ohio River) (Adams County)	Spotted Bass	One/month	Mercury
Ohio Canal	See Portage Canal (Summit County)			

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Ohio River	Pennsylvania Border (East Liverpool) to Belleville Lock (Athens, Belmont, Columbiana, Jefferson, Meigs, Monroe, Washington counties)	Channel Catfish 18" and over	Do Not Eat	PCBs
		Channel Catfish under 18", Common Carp, Striped Bass Hybrid, White Bass	One/two months	PCBs
		Black Crappie, Flathead Catfish, Freshwater Drum, Largemouth Bass, Sauger, Saugeye, Smallmouth Bass, Smallmouth Buffalo, Spotted Bass, All Suckers, Walleye	One/month	PCBs
	Belleville Lock to Indiana Border (Adams, Brown, Clermont, Gallia, Hamilton, Lawrence, Meigs, Scioto counties)	Channel Catfish 18" and over	One/two months	PCBs
		Channel Catfish under 18", Common Carp, Flathead Catfish, Freshwater Drum, Striped Bass, Striped Bass Hybrid, All Suckers, White Bass	One/month	PCBs
		Largemouth Bass, Smallmouth Bass, Spotted Bass	One/month	Mercury
Olentangy River	State Route 95 (Claridon) to mouth (Scioto River) (Delaware, Franklin, Marion counties)	Smallmouth Bass 12" and over	One/month	Mercury
O'Shaughnessy Reservoir	All waters (Delaware County)	Common Carp, White Crappie	Two/week	Mercury
Ottawa River (Lima)	Cool Road (Allen County) to mouth (Auglaize River) (Allen, Putnam counties)	Rock Bass, Smallmouth Bass	One/month	Mercury
Ottawa River (Toledo)	Main Street in Sylvania to mouth (Lake Erie) (Lucas County)	Channel Catfish, Common Carp, Golden Shiner	One/month	PCBs
		Pumpkinseed Sunfish	One/week	PCBs
Paint Creek (continued on next page)	Thomas Road near Florence to near Plyley's Lane at Belleview Avenue (Belleview Heights) (Fayette, Highland, Madison, Ross counties)	Largemouth Bass	One/month	Mercury

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Paint Creek (continued)	Near Plyley's Lane at Belleview Avenue (Belleview Heights) to mouth (Scioto River) (Ross County)	Common Carp	One/month	PCBs
		Largemouth Bass	One/month	Mercury
Paint Creek Lake	All waters (Highland County)	Saugeye	Two/week	Mercury
		Bluegill Sunfish	Unrestricted	
Piedmont Lake	All waters (Harrison County)	Common Carp, Largemouth Bass	Two/week	Mercury
		Bluegill Sunfish	Unrestricted	Mercury
Pike Lake	All waters (Pike County)	Channel Catfish	Two/week	Mercury
Pine Creek	Monroe Road to mouth (Ohio River) (Lawrence, Scioto counties)	Sauger, Spotted Bass	One/month	Mercury
Portage Canal (a.k.a. Ohio Canal)	All waters (Summit County)	Common Carp	One/month	PCBs
		Channel Catfish	Do Not Eat	PCBs
Portage River	Ohio Turnpike to Lake Erie (Ottawa County)	Channel Catfish, Common Carp	One/two months	PCBs
Punderson Lake	All waters (Geauga County)	Largemouth Bass	One/month	Mercury
Pymatuning Reservoir	All waters (Ashtabula County)	Largemouth Bass	Two/week	Mercury
Raccoon Creek	State Route 160 in Vinton to mouth (Ohio River) (Vinton, Gallia counties)	Freshwater Drum, Spotted Bass	One/month	Mercury
Rocky Fork Licking River	Jobes Road near Davis Farm Bridge to mouth (Licking River) (Licking County)	Smallmouth Bass	One/month	Mercury
Rocky Fork Little Scioto River	Kendall Road (Minford) to mouth (Little Scioto River) (Scioto County)	Spotted Bass	One/month	Mercury
Rocky Fork Mohican River	I-71 to mouth (Black Fork Mohican River) (Richland County)	Channel Catfish, Common Carp	One/month	PCBs
Rush Creek Lake	All waters (Fairfield, Perry counties)	Channel Catfish, Common Carp	Two/week	Mercury
		Redear Sunfish	One/week	Arsenic
Rush Run Lake	All waters (Preble County)	Largemouth Bass	One/month	Mercury
Salt Creek	State Route 56 near Election Road (Haynes) to mouth (Scioto River) (Hocking, Ross, Vinton, counties)	Channel Catfish 18" and over, Sauger, Smallmouth Bass, Spotted Bass	One/month	Mercury
		Flathead Catfish	One/month	Mercury, PCBs
Salt Fork Reservoir	All waters (Guernsey County)	Bluegill Sunfish	Unrestricted	
Salt Lick Creek	North High Street (Jackson) to County Road 216 (Springer Road) (Jackson, Ross counties)	Spotted Bass	One/month	Mercury

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Sandusky River	Rice Road, south of the Ballville Dam, to Lake Erie	Common Carp, Smallmouth Buffalo	One/month	PCBs
	State Route 598 (Middletown) to mouth (Lake Erie) (Crawford, Sandusky, Seneca, Wyandot counties)	Channel Catfish 16" and over, Rock Bass, Smallmouth Bass	One/month	Mercury
Sandy Creek	Stump Road (Minerva) to mouth (Tuscarawas River) (Carroll, Columbiana, Stark, Tuscarawas counties)	Common Carp, Rock Bass	One/month	PCBs
		Smallmouth Bass	One/month	Mercury, PCBs
Schoonover Lake	All waters (Allen County)	Largemouth Bass	One/month	Mercury
Scioto River	U.S. Route 68 (Kenton) to Ostrander Road (Warrensburg) (Delaware, Hardin, Marion counties)	Northern Pike, Saugeye 19" and over, Smallmouth Bass	One/month	Mercury
		Flathead Catfish 21" and over	One/month	PCBs
	Ostrander Road (Warrensburg) to Greenlawn Dam (Columbus) (Delaware, Franklin, Pickaway counties)	Saugeye 19" and over	One/month	Mercury
		Flathead Catfish	One/month	Mercury, PCBs
	Greenlawn Dam (Columbus) to U.S. Route 35 (Chillicothe) (Pickaway, Ross counties)	Saugeye 19" and over, White Bass 12" and over	One/month	Mercury
		Flathead Catfish	One/month	PCBs, Mercury
		Channel Catfish, Common Carp	One/month	PCBs
	U.S. Route 35 (Chillicothe) to State Route 335 (Omega) (Pike, Ross counties)	White Bass 12" and over	One/month	Mercury
		Flathead Catfish	One/month	PCBs, Mercury
		Channel Catfish, Common Carp, Smallmouth Buffalo	One/month	PCBs
	State Route 335 (Omega) to mouth (Ohio River) (Pike, Scioto counties)	White Bass 12" and over	One/month	Mercury
		Flathead Catfish	One/month	PCBs, Mercury
Channel Catfish, Common Carp		One/month	PCBs	
Sevenmile Creek	U.S. Route 35 (Eaton) to mouth (Four Mile Creek) (Butler County)	Rock Bass	One/month	Mercury
Shade River	All waters (Meigs County)	Freshwater Drum	One/month	Mercury

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Sippo Lake	All waters (Stark County)	Black Crappie, Bluegill Sunfish, Common Carp, Largemouth Bass	Unrestricted	
South Branch Portage River	Defiance Pike to mouth (Portage River) (Wood County)	Common Carp	One/month	PCBs
South Turkeyfoot Creek	All waters (Henry County)	Yellow Bullhead	Two/week	Mercury
St. Joseph Lake	All waters (Perry County)	Largemouth Bass	One/month	Mercury
St. Joseph River	All waters (Defiance, Williams counties)	Channel Catfish	One/month	*Mercury, PCBs
		Rock Bass, Northern Pike	One/month	Mercury
St. Marys River	All waters (Auglaize, Mercer, Van Wert counties)	Freshwater Drum, Largemouth Bass Northern Pike, Saugeye	One/month	Mercury
Stillwater Creek	Piedmont Lake to State Route 800 (Tuscarawas, Harrison, Belmont counties)	Northern Pike, Saugeye	One/month	Mercury
Stillwater River	Tobin Road (Cosmos) to State Route 121 (Needmore) (Darke County)	Channel Catfish, Smallmouth Bass	One/month	Mercury
	State Route 121 (Needmore) to State Route 718 (Pleasant Hill) (Darke, Miami counties)	Channel Catfish, Rock Bass 8" and over, Smallmouth Bass	One/month	Mercury
	State Route 718 (Pleasant Hill) to Turner Shoup Mill Road (Dayton) (Miami, Montgomery counties)	Channel Catfish, Largemouth Bass 13" and over, Rock Bass 8" and over, Smallmouth Bass	One/month	Mercury
	Turner Shoup Mill Road (Dayton) to mouth (Great Miami River) (Montgomery County)	Channel Catfish, Largemouth Bass 13" and over, Rock Bass 8" and over, Smallmouth Bass, White Crappie	One/month	Mercury
Summit Lake	All waters (Summit County)	Channel Catfish	Do Not Eat	PCBs
		Common Carp	One/month	PCBs
Swan Creek	Weckerley Road (Whitehouse) to mouth (Lake Erie) (Lucas County)	Common Carp	One/month	Mercury, PCBs
		Northern Pike, Freshwater Drum, Rock Bass	One/month	Mercury
Symmes Creek	State Route 141, Waterloo to Ohio River (Gallia, Lawrence counties)	Freshwater Drum, Sauger, Channel Catfish	One/month	Mercury

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Tiffin River	All waters (Defiance, Fulton, Williams counties)	Channel Catfish 20" and greater, Common Carp, Flathead Catfish, Freshwater Drum, Northern Pike 25" and greater, Smallmouth Bass	One/month	Mercury
Toussaint Creek	U.S. 23 to mouth (Lake Erie) (Ottawa, Sandusky counties)	Common Carp	One/month	PCBs
Turkey Creek Lake	All waters (Scioto County)	Largemouth Bass	One/month	Mercury
Tuscarawas River# (continued on next page)	Arlington Road (Akron) to State Route 619 (Barberton) (Summit County)	Channel Catfish, Common Carp	One/two months	PCBs
	State Route 619 (Barberton) to Butterbridge Road (Crystal Springs) (Stark, Summit counties)	Channel Catfish, Common Carp	One/two months	PCBs
		Smallmouth Bass, Yellow Bullhead	One/month	PCBs
		Northern Pike 25" and over	One/month	Mercury
	Butterbridge Road (Crystal Springs) to State Route 416 (New Philadelphia) (Stark, Tuscarawas counties)	Channel Catfish, Common Carp	One/two months	PCBs
		Rock Bass 9" and over, Smallmouth Bass, Yellow Bullhead	One/month	PCBs
		Northern Pike 25" and over	One/month	Mercury
	State Route 416 (New Philadelphia) to Township Road 204 (Tuscarawas) (Tuscarawas County)	Flathead Catfish 26" and over	Do Not Eat	PCBs
		Channel Catfish, Common Carp, Flathead Catfish under 26"	One/two months	PCBs
		Walleye	One/month	Mercury, PCBs
	Township Road 204 (Tuscarawas) to State Route 751 (Orange) (Coshocton, Tuscarawas counties)	Flathead Catfish 26" and over	Do Not Eat	PCBs
		Channel Catfish, Common Carp, Flathead Catfish under 26"	One/two months	PCBs
Freshwater Drum, Walleye		One/month	Mercury, PCBs	

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Tuscarawas River# (continued)	State Route 751 (Orange) to mouth (Muskingum River) (Coshocton County)	Flathead Catfish 26" and over	Do Not Eat	PCBs
		Channel Catfish, Common Carp, Flathead Catfish under 26"	One/two months	PCBs
		Freshwater Drum	One/month	Mercury, PCBs
Twin Creek	U.S. Route 40 (Lewisburg) to mouth (Great Miami River) (Montgomery, Preble, Warren counties)	Smallmouth Bass 13" and over	One/month	Mercury
Tymochtee Creek	State Route 37 (Marseilles) to mouth (Sandusky River) (Wyandot County)	Channel Catfish	One/month	Mercury
Vermilion River	All waters (Erie, Huron, Lorain, Richland counties)	Smallmouth Bass	One/month	Mercury
Veteran's Memorial Reservoir	All waters (Hancock County)	White Crappie	Two/week	Mercury
		Common Carp	One/month	Mercury
Wakatomika Creek	All waters (Coshocton, Knox, Licking, Muskingum counties)	Rock Bass, Smallmouth Bass	One/month	Mercury
Walborn Reservoir	All waters (Portage, Stark counties)	Largemouth Bass	One/month	Mercury
Walhonding River	All waters (Coshocton County)	Freshwater Drum, Smallmouth Bass	One/month	Mercury
Walnut Creek (Scioto River tributary)	All waters (Fairfield, Franklin, Pickaway counties)	Channel Catfish	One/month	PCBs
		Smallmouth Bass 14" and larger	One/month	Mercury
West Branch Black River	Parsons Road to mouth (Black River) (Lorain County)	White Sucker, Common Carp, Rock Bass	One/month	Mercury
West Branch Huron River	Monroeville at River Road to mouth (Huron River) (Erie, Huron counties)	Common Carp	One/month	PCBs
West Branch Reservoir (Michael J. Kirwan Reservoir)	All waters (Portage County)	Largemouth Bass	One/month	Mercury
West Branch Rocky River	All waters (Cuyahoga, Medina counties)	Rock Bass, Smallmouth Bass	One/month	Mercury
Wheeling Creek	State Route 9 (Fairpoint) to mouth (Ohio River) (Belmont County)	Smallmouth Bass	One/month	Mercury
Whitewater River	Indiana State Line to mouth (Great Miami River) (Hamilton County)	Freshwater Drum, Sauger	One/month	Mercury
		White Bass	One/month	PCBs

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Body of Water	Area Under Advisory	Species	Meal Frequency	Contaminant
Wills Creek	All waters (Muskingum, Coshocton counties)	Saugeye	One/month	Mercury
Wills Creek Reservoir	All waters (Muskingum County)	Channel Catfish	Two/week	Mercury
Wolf Creek	Gettysburg Road to mouth (Great Miami River) (Montgomery County)	Common Carp	One/month	PCBs
Yellow Creek	State Park Mooretown Road (Bravo) to mouth (Ohio River) (Jefferson County)	Freshwater Drum	One/month	Mercury

* Chemical that drives the advisory.

The Tuscarawas River had a one meal/month fish advisory due to hexachlorobenzene through 2005. Data collected in 2004 indicate that, although some hexachlorobenzene is still found in fish from the Tuscarawas River, the levels are not a threat to human health if one meal/week or less is consumed.

^ The Middle Fork Little Beaver Creek had a **Do Not Eat** fish advisory due to mirex through 2006. Data collected from 1998 through 2004 indicate that, although some mirex is still found in fish in the Middle Fork Little Beaver Creek, the levels are no longer high enough to require a no consumption advisory. All fish in Middle Fork Little Beaver Creek should be consumed no more than once a week, as some species still contain mirex.

PAHs = Polycyclic Aromatic Hydrocarbons

PCBs = Polychlorinated Biphenyls

Do Not Wade or Swim in These Waters

The waters and/or sediments in these areas have high levels of contaminants. It is recommended that a person not swim or wade in these water body sections.

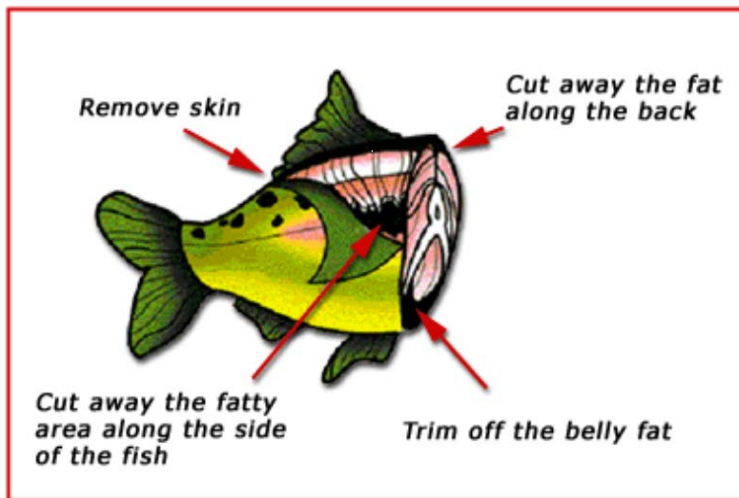
Body of Water	Area Under Advisory	Contaminant
Dicks Creek	River mile 4.1 (1 mile downstream from North Branch Dicks Creek), Middletown to the Great Miami River (Butler County)	PCBs
Little Scioto River	State Route 739, near Marion to Holland Road, near Marion (Marion County)	PAHs
Mahoning River	NW Bridge Road (Warren) to Pennsylvania State Line (Mahoning, Trumbull counties)	PAHs, PCBs
Ottawa River, Toledo	Interstate 475 near Auburn Avenue, Toledo to Maumee Bay, Lake Erie (Lucas County)	PCBs

PAHs = Polycyclic Aromatic Hydrocarbons

PCBs = Polychlorinated Biphenyls

Trimming and Cooking Fish

- Fillet the fish.
- Remove all skin from fillets or steaks. This allows fat to drain away from the fish during cooking.
- Trim off the fatty areas that are shown in black on the drawing. These include the fatty areas found along the belly, back, and both sides of the fillet.
- Cook so that the fat drips away. Broil, bake, or grill on a rack, or poach and discard the liquid.
- If you deep-fry your catch, discard the oil. Pan frying removes few, if any, contaminants.
- If you prepare soups or chowders from fish, be aware that this cooking method holds in juices that contain fat (and contaminants) from the fish. If you are preparing a soup or chowder, you can reduce the amount of contaminants by baking, broiling, grilling or poaching your fish first, then adding the cooked fish to the soup or chowder.



Common Ohio Sport Fish

Go to wildlife.ohiodnr.gov/species-and-habitats/species-guide-index for pictures of common Ohio sport fish, including:

Black crappie
Bluegill sunfish
Channel catfish
Common carp
Flathead catfish
Freshwater drum
Lake trout
Largemouth bass
Longear sunfish

Muskellunge
Northern pike
Rock bass
Sauger
Saugeye
Smallmouth bass
Spotted bass
Steelhead (Rainbow) trout

Striped bass hybrid
Walleye
White bass
White crappie
White perch
White sucker
Yellow bullhead
Yellow perch

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Questions and Answers

Why are fish consumption advisories needed?

While most Ohio sport fish are safe to eat, low levels of chemicals like polychlorinated biphenyls (PCBs) and mercury have been found in some fish from certain waters. To ensure the continued good health of Ohioans, the Ohio Department of Health offers an advisory for how often these fish can be safely eaten. An advisory is advice, and should not be viewed as law or regulation. It is intended to help anglers and their families make educated choices about: where you fish, what types of fish you eat, how to determine the amount and frequency of fish you consume and how you prepare fish for cooking.

By following these advisories, you can get the health benefits of eating fish and reduce unwanted contaminants.

What is the meal portion or serving size used in these advisories?

For an adult, the serving size is eight ounces uncooked or six ounces cooked. For children under age six, the serving size is three ounces uncooked or two ounces cooked.

What about fish from the grocery or restaurants?

This advisory covers only sport fish caught and consumed by Ohio anglers. Safety regulations and advisories for fish in the market place are the responsibility of the Federal Food and Drug Administration (FDA). Most kinds of fish on the market are safe and numerous health organizations encourage consumption of up to 12 ounces of fish/week. Based upon national advisory information issued by FDA, the following species of fish could pose health problems for some individuals. Avoid these kinds of fish if you are concerned about your exposure to chemical contaminants:

- Shark
- Swordfish
- King mackerel
- Tilefish from the Gulf of Mexico
- Orange roughy
- Bigeye tuna
- Marlin

U.S. EPA and FDA have issued an advisory for women who might become pregnant, women who are pregnant, nursing mothers and young children. U.S. EPA and FDA recommend that women of childbearing age and children limit their intake of fish, including store-bought fish and tuna, to two to three meals/week (8-12 oz. of fish/week for an adult woman). For more information about FDA's fish consumption advice, see fda.gov/Food/FoodborneIllnessContaminants/Metals/ucm393070.htm.

What about fast food fish sandwiches and fish sticks?

These are usually made from fish low in contaminants.

What contaminants are looked for to determine if a fish advisory is needed?

Ohio's fish samples are analyzed for several contaminants, most importantly mercury and PCBs, as those two contaminants are found most often in fish at levels of concern. Several metals including arsenic, cadmium, lead and selenium are looked for in addition to mercury. Samples are also analyzed for pesticides, including aldrin, dieldrin, lindane, DDT and its breakdown products, endrin, endosulfan, heptachlor, methoxychlor, hexachlorobenzene, mirex and nonachlor. Except in a few special cases on the advisory list, mercury and PCBs are responsible for advisories on Ohio sport fish.

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If I eat a fish that is listed at a recommended consumption frequency of one meal/month for mercury, can I also eat a fish that is listed at a recommended consumption frequency of one meal/month for PCBs?

Yes. Because PCBs and mercury affect different body processes, it is considered safe to eat a fish that has an advisory due to mercury and another fish that has an advisory due to PCBs, even if they have the same meal frequency suggested. However, if you eat any fish that has an advisory due to a particular contaminant, you should not eat another fish within the advised length of time that is listed for that contaminant, regardless of the species or location. For example, if you eat a fish that has a one/month recommended frequency for mercury, you should not eat another sport caught fish that is listed as one/month for mercury, even if the other fish is a different species caught at a different place.

What if I eat more than the recommended amount of fish and shellfish in a week?

One week's consumption of fish does not change the level of contaminants in the body much at all. If you eat a lot of fish one week, you can cut back for the next week or two. Just make sure you average the recommended amount/week.

Why does Ohio have a general advisory to limit meals of sport fish?

Fish taken from rivers, streams, lakes and reservoirs throughout Ohio often have small amounts of chemical contaminants. Limiting the number of sport fish meals eaten ensures that the contaminants do not build up in your body to levels that may be harmful. Data collected from lakes and rivers in Ohio show that a statewide advisory of one meal/week of most sport-caught fish is appropriate.

Has the lake where I like to fish been sampled for contaminated fish?

All lakes that have fish with higher levels of contaminants are listed in the main advisory table. If you don't see the public lake where you fish in the main table, then you may safely consume the fish you catch from the lake according to the general advisory. A complete list of lakes that have been sampled for contaminated fish can be viewed on Ohio EPA's fish consumption advisory webpage or by contacting Ohio EPA.

The lake where I fish seems dirty, but the fish have been sampled and there is no advisory. How can the lake seem dirty but the fish not have an advisory?

Ohio EPA evaluates 36 fish tissue contaminants to decide whether to issue a fish consumption advisory. You cannot see, smell or taste these fish contaminants at levels that can affect your health. Therefore, a lake can look dirty, yet the fish in it can be uncontaminated. Conversely, a lake can look clean and the fish can be contaminated and require an advisory. Some things that cause a lake to seem dirty, such as sediment that makes the water look muddy, or bacteria and algae (microscopic plants) that can produce an odor, do not contaminate fish tissue. Therefore, you cannot tell if there should be a fish advisory by whether the lake looks or smells dirty.

What health benefits do I get from eating sport fish?

Fish can be part of a healthy, balanced diet. Fish are generally low in fat and high in protein. Fish contain many vitamins and minerals, and are the primary food source of omega-3 fatty acids. Omega-3 fatty acids are important during fetal brain and eye development. Omega-3 fatty acids also help to prevent heart disease in adults. For the American Heart Association's recommendation on eating fish, please visit healthyforgood.heart.org/Eat-smart/Articles/Fish-and-Omega-3-Fatty-Acids.

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Should I stop eating fish?

We are NOT recommending that you stop eating sport fish, except where **Do Not Eat** is shown in the advisory. Eating fish regularly offers several health benefits. You will gain those benefits if you follow this fish advisory information carefully to choose safer places to fish; pick safer species to eat; trim and cook your catch correctly; and follow the recommended meal frequency. At the same time, you will reduce your exposure to possible contaminants.

What about eating tuna fish?

U.S. EPA and FDA have issued an advisory for women of child-bearing age and children. The FDA recommends that women of child-bearing age and children limit their intake of fish, including store bought fish and canned tuna, to two to three average meals/week (8-12 ounces of fish/week for adults and children over age 10, smaller amounts for younger children). Albacore (white) tuna has more mercury than canned light tuna. So, when choosing two meals of fish and shellfish, you may eat up to four ounces (one average meal) of albacore tuna/week. Because tuna steak generally contains higher levels of mercury than canned light tuna, when choosing two meals of fish and shellfish, you may eat up to four ounces (one average meal) of tuna steak/week. For more information about FDA's fish consumption advice, including information about tuna consumption, see fda.gov/Food/FoodborneIllnessContaminants/Metals/ucm393070.htm.

What contaminants are in fish?

Contaminants that are found in some Ohio fish include PCBs, pesticides and metals such as lead and methyl mercury. The contaminants responsible for most advisories are methyl mercury and PCBs.

What is methyl mercury?

Mercury is a metal that occurs in nature. It does not break down, but cycles between land, air and water. Mercury may be released to the atmosphere by active volcanoes, coal-burning power plants and burning of industrial or household wastes. Bacteria in sediments convert mercury to methyl mercury, an organic compound. Methyl mercury builds up in fish through the food chain. Nearly all the mercury found in fish is methyl mercury.

What are polychlorinated biphenyls (PCBs)?

Polychlorinated biphenyls (PCBs) are man-made oils that were once used in carbonless copying paper and in electrical equipment such as capacitors, transformers and fluorescent light ballasts. PCBs break down very slowly in the environment. PCBs tend to stay in sediments and build up in fish through the food chain.

How do methyl mercury and PCBs affect human health?

The levels of these compounds found in Ohio fish are not known to cause immediate severe sickness. Long-lasting contaminants such as PCBs and mercury can build up in your body over time. It may take months or years of regularly eating contaminated fish to build up amounts that are a health concern. Health problems that may result from the contaminants in fish range from small, hard to detect health changes to birth defects, as well as mental and physical retardation in newborns. Mothers who eat highly contaminated fish for many years before becoming pregnant may have children who are slower to develop and learn. Therefore, women who plan to become pregnant should follow the fish consumption advice given to pregnant and nursing women for several years before becoming pregnant. It takes up to six years or more for the body to get rid of PCBs, and up to one year to get rid of mercury.

The advisories that protect sensitive populations also protect all other members of the public.

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How can I reduce my health risk?

Choose smaller fish (within the legal size limit). Smaller fish within a species tend to have fewer contaminants than older, larger fish, and are sometimes tastier and more tender.

Choose leaner fish. Fish that are higher in fat — Channel Catfish and Carp, for example — will likely have more fat and may have higher levels of PCBs and similar chemicals in their bodies. Yellow Perch, Sunfish and Crappies are examples of lean fish.

Trim and cook your fish properly to reduce risk. This is important because all meal advice given in the advisory assumes that this has been done. Proper preparation reduces your exposure to organic chemicals like PCBs and certain pesticides. More than 50 percent of these contaminants can be eliminated by trimming fatty areas before cooking and by cooking fish in ways that allow fat to drip away. Mercury levels cannot be reduced by trimming because mercury binds to protein (the meat portion) of the fish.

What groups are most sensitive to contaminants?

Contaminants in fish can be harmful to people of all ages, but the fetus and young children are especially sensitive to contaminants because their organs and systems are not yet fully developed. They are less able to deal with toxic substances than an adult. Contaminants in fish can affect your baby more than they affect you and can be hard to detect. It is best to prevent childhood exposure to fish contaminants in the first place. In summary, the most sensitive groups are unborn children and children age 15 and under. This also includes women who plan to become pregnant, women who are pregnant and nursing mothers.

Periodically check the website epa.ohio.gov/dsw/fishadvisory/index.aspx or contact the Ohio Department of Health or Ohio EPA for the latest information on Ohio sport fish consumption advisories.