

## Maryland's Fish Consumption Advisory (FCA)



### Maryland Department of the Environment (MDE) goals:

- 1. maintaining the health benefit of fish consumption,
- 2. minimizing the potential for toxic chemical exposures to anglers and those who consume the anglers' catch,
- 3. using credible and understandable science, and
- presenting the information in a manner conducive to maximum voluntary compliance.



### HAZARD VS. RISK

#### IN FISH CONSUMPTION

#### What is a Hazard?

A <u>hazard</u> is anything with potential to cause harm.

- Mercury
- Polychlorinated biphenyls (PCBs)
- Per- and polyfluoroalkyl substances (PFAS)
- Microplastics
- Foodborne pathogens (e.g. Bacteria in raw fish)

#### What is a Risk?

<u>Risk</u> is the likelihood that the harm will actually occur, based on how much and how often you are exposed.

- Amount of Fish Consumed
- Type (Species) of fish
- Size of Fish
- Frequency of consumption
- Vulnerability of the person (e.g., pregnant women, children, age, family history)



### Example:





- Low Risk Eating canned light tuna occasionally
- <u>High Risk</u> Eating quantities of albacore tuna weekly, especially during pregnancy

#### RISK = HAZARD x EXPOSURE

### **Key Takeaways:**

#### Hazard ≠ Risk

Just because something can harm you doesn't mean that it will.

- · Risk can be managed by:
  - Choosing smaller fish smaller fish tend to bioaccumulate less pollutants.
  - Limiting consumption of high-risk species
  - Following state advisories for fish caught in local waters.
  - Be aware of your personal vulnerabilities and the specific risk they contribute to consumption

Stay informed, eat smart, and enjoy the benefits of fish while minimizing risks!



## A word about PFAS

For the purposes of the Fish Consumption Advisory Program, the following information is focused on preventing ingestion of bioaccumulated PFAS in food, not necessarily incidental water ingestion.

Our advisories are based off a screening value derived from drinking water standards. This assumes that the average person will or should be drinking at least 64 ounces of water a day, if you drink 64 ounces of water while swimming...you're doing it wrong.



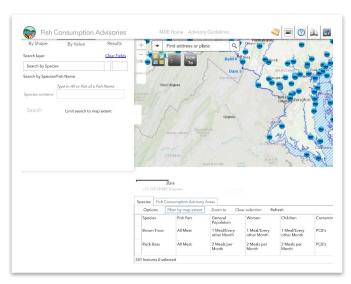
- Brochures available for print or electronic posting in English and Spanish
- Online interactive map that shows fish advisories
  - Locator feature (zoom to your location with one click)
  - Advisories listed by area (including general advisories)
  - Pictures of adult fish (to aid proper identification)
  - Link to video that shows proper cleaning technique that can reduce PCB concentration in meat by up to 80%
- PDF tables of fish consumption advisories for the entire state, sorted by location and species.
- PDF tables of fish consumption advisories for each individual county (including waterbodies in adjacent counties that may be shared)



### MDE Interactive Fish Consumption Advisory Map

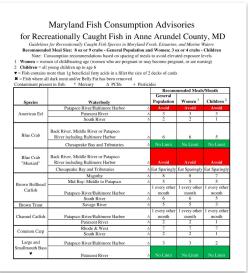
Interactive map:

https://mdewin64.mde.state.md.us/WSA/FCA/index.html



### County PDFs:

https://mde.maryland.gov/programs/Marylander/fi shandshellfish/Pages/fishconsumptionadvisory.aspx #





# Signs – Materials

- 18" x 18", 0.08" thick, gloss with laminate, aluminum signs
  - Signs are now more cost effective



### **FISH CONSUMPTION ADVISORY**

A consumption advisory is in effect for certain fish caught in these waters. Please read the information on fish advisories for this area online using our interactive map via computer or cell phone at <a href="http://mde.maryland.gov/FCA">http://mde.maryland.gov/FCA</a>

Please read the information on fish advisories for Baltimore County online at https://mde.maryland.gov/BaltimoreCountyFCA







### **AVISO SOBRE EL CONSUMO DE PESCADOS**

Aviso vigente sobre el consumo de ciertos pescados capturados en estas aguas.

Usando su computadora o su teléfono celular, vaya a esta página de internet: <a href="http://mde.maryland.gov/FCA">http://mde.maryland.gov/FCA</a>. Ahí podrá accesar nuestro mapa interactivo, el cual contiene la información que usted necesita saber acerca del consumo de pescados capturados en esta área.



Información específica acerca del consumo de pescados capturados en ríos en el <u>Condado de Baltimore</u> la puede encontrar en esta página de internet: <a href="https://mde.maryland.gov/BaltimoreCountyFCA">https://mde.maryland.gov/BaltimoreCountyFCA</a>







# New Signs – New Information

- Each sign is customized for the County
- Signs link to the county-specific PDF Consumption Advisory and to interactive FCA Map
  - Signs no longer need to be updated, PDF is updated, so they will always have the most current advisories
- Signs are available in English and Spanish
  - Other languages are available upon request
- Each sign has QR codes for quick response to links on signs.



## New Stickers – New Information

 Link to English and Spanish Statewide Consumption Advisories.









# **Contact Information**

Amy Laliberte

Amy.Laliberte@maryland.gov

(410) 537 - 3818

(410) 960 - 7297