### **Appendix A**

### **Draft National Fish Advisory Program Evaluation**

##### OMB Control Number 2040-0226 Approval Expires XX/XX/XX

**United States Environmental Protection Agency**

**Voluntary Information Collection for the**

**National Fish Advisory Program Evaluation**

EPA is collecting the following information from states[[1]](#footnote-2) and tribes on a voluntary basis, once during the three-year period of this ICR. Specifically, EPA is interested in fish program information for the National Fish Advisory Program Evaluation, from state or tribal agencies responsible for issuing noncommercial (sportfishing/subsistence) fish/shellfish advisories or closures for chemical contamination in fish and shellfish.

EPA aims to advance efforts to support equity and environmental justice in fish advisory programs by ensuring that recreational and subsistence fishers and other underserved populations are protected from consumption of contaminated fish. EPA will analyze the collected information to determine what science, guidance, technical assistance, and nationwide information are needed to help state and tribes have equitable and effective fish advisory programs. In addition, EPA will also use the information provided to facilitate information sharing and to ensure guidance documents are useful and technically accurate.

EPA greatly appreciates your assistance and thanks you for your continued support of USEPA’s National Fish Program. For questions regarding this program evaluation, please contact CDR Samantha Fontenelle at fontenelle.samantha@epa.gov.

Sara Hisel-McCoy

Director, Standards and Health Protection Division

Office of Water, Office of Science and Technology

U.S. Environmental Protection Agency

Agency Name

Agency Address

Respondent’s Name

Respondent’s E-mail Address

Respondent’s Phone Number

**Fish Tissue Monitoring Program**

###### Did your state or tribal agency conduct routine monitoring in the last three years to obtain information about the concentrations of contaminants in fish tissue for assessing human health risks?

\_\_ Yes \_\_ No \_\_Not applicable

* 1. **What kind of data does your state or tribal agency collect to evaluate contaminant levels in fish? (Please check all that apply.)**

\_\_ Captures fish and sends tissues to a lab to determine contaminant concentrations

\_\_ Monitors water quality and uses data to estimate contaminant concentrations in fish

\_\_ Monitor sediments and uses data to estimate contaminant concentrations in fish

\_\_ Other methods (please specify)

\_\_ Not applicable

* 1. **How does your state or tribe conduct monitoring of contaminants in fish tissue for fish advisories? (Please check all that apply)**

\_\_ Conducts one-time, nonrecurring or special surveys in particular fishing areas, watersheds, or basins

\_\_ Monitors the same fishing areas, watersheds, or basins at regular intervals

\_\_ Other methods (please specify)

\_\_ Not applicable

* 1. **In the last three years, please estimate the number of stations from which your state or tribal agency collected fish tissue that was analyzed for contaminants and/or was used for the fish advisory program.**

\_\_ 0 stations \_\_ 31-50 stations

\_\_ 1-10 stations \_\_ 51-100 stations

\_\_ 11-20 stations \_\_ >100 stations

\_\_ 21-30 stations \_\_ Not applicable

* 1. **How frequently does your state or tribe typically resample fish from waterbodies where advisories are in effect?**

\_\_ Every year

\_\_ Every 2 years

\_\_ Every 3 years

\_\_ Every 4 years

\_\_ Every 5 years

\_\_ Every 6 to 10 years

\_\_ On an as-needed basis (no set schedule)

\_\_ Other (please specify)

\_\_ Not applicable

* 1. **In approximately how many waterbodies was fish tissue monitoring conducted within your state or tribe in the last three years?**

\_\_ 1-10 waterbodies

\_\_ 11-20 waterbodies

\_\_ 21-30 waterbodies

\_\_ 31-40 waterbodies

\_\_ >40 (specify number) (please specify)

\_\_ Not applicable

* 1. **Please check how your state or tribe determines which sites to monitor contaminants in fish tissue (Please check all that apply)**

|  |  |  |  |
| --- | --- | --- | --- |
| \_\_ | Accessibility of site | \_\_ | Fixed-station sites |
| \_\_ | Area of concern | \_\_ | High pollution potential at the site |
| \_\_ | Citizen or Agency request | \_\_ | Major fishery resource |
| \_\_ \_\_ | Degree of angling pressure the site receives  Other method (please specify) | \_\_ | Randomly selected sites  \_\_ Not Applicable |

Answers to questions 8 through 11 should be based on your Agency’s evaluation of fish tissue monitoring data. Sediment analysis or water quality monitoring data may be included in your evaluation only if they are used **as the basis for determining when an advisory is needed**. Note: For these questions, you may need to consult with other individuals in your state or tribal organization.

* 1. **How many river, stream, or canal miles were monitored at least once during the last three years specifically for the fish advisory program?**

miles

* 1. **How many lake or reservoir acres were monitored at least once during the past three years specifically for the fish advisory program?**

acres

* 1. **How many square miles of estuarine waters were monitored at least once during the past three years specifically for the fish advisory program?**

square miles

* 1. **How many miles of marine coastline (coastal waters) were monitored at least once during the past three years specifically for the fish advisory program?**

miles

**Types of Fish Advisories**

* 1. **Does your state or tribe issue fish consumption advisories advising individuals to restrict fish consumption for a particular waterbody?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **Does your state or tribe issue fish consumption advisories advising individuals not to consume any fish or any fish of a particular species from a particular waterbody?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **Fish consumption advisories issued in your state or tribe pertain to: (Please check all that apply)**

\_\_ Specific fish species analyzed by the state (e.g., largemouth bass)

\_\_ Specified size class(es) for the given species analyzed (e.g., largemouth bass 15-20 inches)

\_\_ Selected trophic groups (e.g., game fish, bottom feeders, or panfish)

\_\_ The entire fish community (e.g., all fish)

\_\_ Certain fish species purchased in stores and restaurants

\_\_ Other (please specify)

\_\_ Not applicable

* 1. **Does your state or tribe issue statewide or regionwide or tribal area-wide “blanket” advisories based on your sampling effort?** (A regionwide advisory may be issued for an individual HUC, river drainage basin or portion of the state.)

|  |  |  |  |
| --- | --- | --- | --- |
| State or tribe wide: | \_\_ Yes | \_\_ No | \_\_ Not applicable |
| Regionwide: | \_\_ Yes | \_\_ No | \_\_ Not applicable |

###### Are there enforceable advisories or bans within your state or tribe (e.g., are fines or citations given for fishing in posted waters)?

\_\_ Yes \_\_ No

* 1. **Does your state or tribe issue fish and/or shellfish advisories (closures) for microbial contamination (e.g., bacteria or viruses) of a waterbody?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **Does your state or tribe also issue fish and/or shellfish advisories (closures) for algal toxin contamination (e.g., cyanotoxins) of a waterbody?**

\_\_ Yes \_\_ No \_\_ Not applicable

**Sample Preparation and Analyses Procedures**

* 1. **Fish consumption advisories (“no” consumption and/or restricted consumption advisories) issued in your state or tribe are based on the analysis of: (Please check all that apply)**

\_\_ Fillet samples (skin on)

\_\_ Fillet samples (skin off)

\_\_ Muscle plug samples

\_\_ Whole-fish samples (skin on)

\_\_ Whole-fish samples (skin off)

\_\_ Other sample types (please specify)

\_\_ Not applicable

* 1. **Does your state or tribe target the collection of particular indicator fish/shellfish species, and on what is this decision based? (Please check all that apply)**

\_\_ State/Tribe does not target collection of indicator species

\_\_ State/Tribes targets collection of indicator species based on:

\_\_ Angler survey data

\_\_ Availability of the species

\_\_ Desire to maintain consistency with past collections

\_\_ EPA target species recommendations based on bioaccumulation potential/trophic groups

\_\_ Citizen requests

\_\_ Other reasons (please specify)

\_\_ Not applicable

* 1. **Which particular indicator fish species does your state or tribe target for monitoring?**

**(Please specify)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* 1. **Does your state or tribe collect multiple size classes, by species, and submit these individual size classes for contaminant analyses?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **Are individual fish samples or composite samples submitted for contaminant analyses in your state or tribe?**

\_\_ Individual fish samples only

\_\_ Composite samples only

\_\_ Both individual and composite samples are used

\_\_ Not applicable

* 1. **If individual fish samples are used, how many “individual fish” typically are needed to support an advisory determination in a waterbody?**

\_\_ 1 fish

\_\_ 3 fish

\_\_ 5 fish

\_\_ 6 to 10 fish

\_\_ 11 to 20 fish

\_\_ > 20 fish

\_\_ Other number (please specify)

\_\_ Not applicable; state uses only composite fish samples

* 1. **If composite samples are used, how many “individual fish” typically are combined in each state or tribal composite samples for contaminant analysis?**

\_\_ 2 fish

\_\_ 3 fish

\_\_ 4 fish

\_\_ 5 fish

\_\_ Other number (please specify)

\_\_ Not applicable; state uses only individual fish samples

* 1. **If composite samples are used, how many composite samples are needed to support an advisory determination in a waterbody?**

\_\_ 1 composite sample \_\_ 2 composite samples \_\_ 3 composite samples

\_\_ Variable; no set number

\_\_ Other number (please specify)

\_\_ Not applicable; state uses only individual fish samples

* 1. **Assuming your state or tribe finds contaminant levels in fish/shellfish in exceedance of** **its benchmark or screening level, how many years of sampling are required at a given waterbody before a fish consumption advisory can be issued?**

\_\_ 1 year

\_\_ 2 years

\_\_ 3 or more years

\_\_ Site-specific decision; no set time period established

\_\_ Other (please specify)

\_\_ Not applicable

* 1. **Once an advisory is issued for a specific waterbody, what must occur for the state or tribe to rescind the advisory?**

\_\_ Contaminant levels of the chemical must decline below the benchmark or screening level for at least 1 year

\_\_ Contaminant levels of the chemical must decline below the benchmark or screening level for at least 2 years

\_\_ Contaminant levels of the pollutant must decline below the benchmark or screening level for at least 3 years

\_\_ Site-specific decision; no set time period established

\_\_ Other schedule or procedure (please specify)

\_\_ Not applicable

* 1. **In the last three years, please estimate the number of fish tissue samples that were submitted for chemical analyses by your state or tribal agency?**

\_\_ <20 samples

\_\_ 21-30 samples

\_\_ 31-40 samples

\_\_ 41-50 samples

\_\_ 51-60 samples

\_\_ >60 samples (please specify number)

\_\_ Not applicable

* 1. **What pollutants did your state or tribe screen for in fish tissue samples in the last three years? (Please check all that apply)**

\_\_ Aldrin

\_\_ Arsenic

\_\_ Cadmium

\_\_ Chlordane \_\_ Chlorpyrifos \_\_ Chromium \_\_ DDT and its

metabolites

\_\_ Diazinon

\_\_ Dicofol

\_\_ Dieldrin

\_\_ Dioxins/Furans

\_\_ Disulfoton

\_\_ Endosulfan

\_\_ Endrin

\_\_ Ethion

\_\_ Heptachlor or Heptachlor epoxide

\_\_ Hexachlorobenzene

\_\_ Lead

\_\_ Lindane

\_\_ Mercury

\_\_ Methoxychlor

\_\_ Mirex

\_\_ Nonachlor \_\_ Oxyfluorfen \_\_ PAHs

\_\_ PCBs

\_\_ PFAS

\_\_ Pentachloroanisole

\_\_ Selenium

\_\_ Terbufos \_\_ Toxaphene \_\_ Tributyltin \_\_ Trifluralin

\_\_ Other (please specify)

* 1. **Of the pollutants listed, which ones are of primary human health concern in your state or tribal waters (specify up to 5 pollutants).**

\_\_ Aldrin

\_\_ Arsenic

\_\_ Cadmium

\_\_ Chlordane \_\_ Chlorpyrifos \_\_ Chromium \_\_ DDT and its

metabolites

\_\_ Diazinon

\_\_ Dicofol

\_\_ Dieldrin

\_\_ Dioxins/Furans

\_\_ Disulfoton

\_\_ Endosulfan

\_\_ Endrin

\_\_ Ethion

\_\_ Heptachlor or Heptachlor epoxide

\_\_ Hexachlorobenzene

\_\_ Lead

\_\_ Lindane

\_\_ Mercury

\_\_ Methoxychlor

\_\_ Mirex

\_\_ Nonachlor \_\_ Oxyfluorfen \_\_ PAHs

\_\_ PCBs

\_\_ PFAS

\_\_ Pentachloroanisole

\_\_ Selenium

\_\_ Terbufos \_\_ Toxaphene \_\_ Tributyltin \_\_ Trifluralin

\_\_ Other (please specify)

* 1. **If your state or tribe analyzes for PCBs, what specifically is analyzed? (Please check all that apply)**

\_\_ Individual congeners

\_\_ All 209 congeners

\_\_ All Aroclor groups

\_\_ Selected Aroclor groups

\_\_ A combination of both Aroclors and congeners

\_\_ Others (please specify)

\_\_ Not applicable

* 1. **If your state or tribe analyzes for PFAS, which PFAS compound specifically is**

**analyzed? Check all that apply.**

**\_\_** Perfluorobutyric acid (PFBA)

\_\_ Perfluorobutanesulfonic acid (PFBS)

\_\_ Perfluoropentanoic acid (PFPeA)

\_\_ Perfluorohexanoic acid (PFHxA)

\_\_ Perfluorohexanesulfonic acid (PFHxS)

\_\_ Perfluoroheptanoic acid (PFHpA)

\_\_ Perfluorooctanoic acid (PFOA)

\_\_ Perfluorooctane sulfonate (PFOS)

\_\_ Perfluorooctanesulfonamide (PFOSA)

\_\_ Perfluorononanoic acid (PFNA)

\_\_ Perfluorodecanoic acid (PFDA)

\_\_ Perfluoroundecanoic acid (PFUnA)

\_\_ Perfluorododecanoic acid (PFDoA)

\_\_ Other (please specify)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**State or Tribal Fish Advisory Program Funding**

* 1. **How many dollars are spent annually in your state or tribe on routine fish tissue field collection activities?**

\_\_ <$1,000 \_\_ $10,000 to $24,999

\_\_ $1,000 to $4,999 \_\_ $25,000 to $50,000

\_\_ $5,000 to $9,999 \_\_ >$50,000 (please specify)

\_\_ Not applicable

* 1. **What was the funding source for your state or tribal fish tissue collection activities in the last three years? (Please check all that apply)**

\_\_ State or tribal general funds

\_\_ State or tribal fishing license revenues

\_\_ State or tribal sales tax

\_\_ EPA Section 106 funds

\_\_ EPA Section 205j funds

\_\_ EPA Region funds

\_\_ EPA Grant funds

\_\_ Other (please specify)

\_\_ Not applicable

* 1. **How many dollars are spent annually in your state or tribe on laboratory analyses of fish tissue samples?**

\_\_ <$1,000 \_\_ $10,000 to $24,999

\_\_ $1,000 to $4,999 \_\_ $25,000 to $50,000

\_\_ $5,000 to $9,999 \_\_ >$50,000 (please specify)

\_\_ Not applicable

* 1. **What was the funding source for your state or tribal laboratory analyses of fish tissue samples in the last three years? (Please check all that apply)**

\_\_ State or tribal general funds

\_\_ State or tribal fishing license revenues

\_\_ State or tribal sales tax

\_\_ EPA Section 106 funds

\_\_ EPA Section 205j funds

\_\_ EPA Region funds

\_\_ EPA Grant funds

\_\_ Other (please specify)

\_\_ Not applicable

* 1. **If no funding is currently available, is your state or tribe seeking funding to conduct a fish tissue monitoring and assessment program?**

\_\_ Yes \_\_ No \_\_ Not applicable

**Other Uses of State or Tribal Advisory Data**

* 1. **For your state or tribal biennial 305(b) water quality report, what assignment is made for a waterbody with a fish consumption advisory?**

|  |  |  |  |
| --- | --- | --- | --- |
| \_\_ | Fully supporting | \_\_ | Threatened |
| \_\_ | Partially supporting | \_\_ | Not supporting |
| \_\_ | No assessments were made | \_\_ | Not applicable |

* 1. **If fish consumption advisories have been issued for waterbodies in your state or tribe, does your state or tribe place these waterbodies on the 303(d) list of impaired waters?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **Is “fish consumption” an assigned designated use for waters in your state or tribe?**

\_\_ Yes \_\_ No

**Risk Assessment Methodology**

* 1. **What method(s) does your state or tribe currently use to calculate “carcinogenic” health risks and issue advisories for individuals who consume fish harvested from state or tribal waters? (Please specify all current methods used)**

\_\_ EPA Fish Advisory Guidance Document

\_\_ State or Tribal developed risk assessment methodology

\_\_ Great Lakes Consortium Protocols and Best Practices for Uniform Fish Advisories

\_\_ Food and Drug Administration (FDA) action levels

\_\_ None

\_\_ Other approach (please specify)

\_\_ Not applicable

* 1. **What carcinogenic risk level (i.e., individual risk within an exposed population) does your state or tribe use to issue advisories?**

\_\_ 1:10,000 (10-4)

\_\_ 1:100,000 (10-5)

\_\_ 1:1,000,000(10-6)

\_\_ Other (please specify)

\_\_ Not applicable

* 1. **What source(s) does your state or tribe use to obtain cancer potency factors to help calculate “carcinogenic” health risks? (Please check all that apply)**

\_\_ ATSDR Toxicological Profiles

\_\_ EPA Fish Advisory Guidance Document

\_\_ EPA Health Effects Assessment Summary Table (HEAST)

\_\_ EPA Integrated Risk Information System (IRIS)

\_\_ Great Lakes Consortium Protocols and Best Practices for Uniform Fish Advisories

\_\_ Hazardous Substance Data Bank (HSDB)/PubChem

\_\_ International Agency for Research on Cancer (IARC) Monographs

\_\_ Other sources (please specify)

\_\_ Not applicable

* 1. **What method(s) does your state or tribe currently use to calculate “noncarcinogenic” benchmarks or screening levels for issuing fish advisories for individuals who consume fish harvested from state or tribal waters? (Please specify all current methods used)**

\_\_ EPA Integrated Risk Information System (IRIS)

\_\_ EPA Fish Advisory Guidance Document

\_\_ ATSDR Toxicological Profiles

\_\_ FDA Action Levels

\_\_ Great Lakes Consortium Protocols and Best Practices for Uniform Fish Advisories

\_\_ Other approach (please specify)

\_\_ Not applicable

\_\_ None

* 1. **If your state or tribe does not calculate its own benchmark or screening levels, what noncarcinogenic benchmark or screening level (i.e., individual risk within an exposed population) does your state use to issue advisories?**

\_\_ Hazard index (please specify if hazard index is >, =, or < 1)

\_\_ FDA action levels

\_\_ Other (please specify)

\_\_ Not applicable

* 1. **What source(s) does your state or tribe use to obtain reference dose to help calculate noncarcinogenic health benchmark or screening level? (Please check all that apply)**

\_\_ ATSDR Toxicological Profiles

\_\_ EPA Integrated Risk Information System (IRIS)

\_\_ EPA Health Effects Assessment Summary Table (HEAST)

\_\_ EPA Fish Advisory Guidance Document

\_\_ Great Lakes Consortium Protocols and Best Practices for Uniform Fish Advisories

\_\_ Hazardous Substance Data Bank (HSDB)/PubChem

\_\_ Other sources (please specify)

\_\_ Not applicable

* 1. **Of all the fish advisories currently in effect in your jurisdiction, including those issued last year and in earlier years, what percentage were issued based on each of these methods?**

**(Please provide your best estimate of the percentage for each method)**

\_\_ % of advisories now in effect were issued using EPA Fish Advisory Guidance document

\_\_ % of advisories now in effect were issued using FDA action levels.

\_\_ % of advisories now in effect were issued using state or tribal methods specified in question 42

\_\_ % of advisories now in effect were issued using other methods specified in question 42 and 44

\_\_ Not applicable

* 1. **What default value does your state or tribe use in the risk assessments as a daily fish consumption rate for recreational fishers?**

\_\_ 6.5 g/day

\_\_ 17.5 g/day

\_\_ 22 g/day

\_\_ 32 g/day (a nutritionally y focused fish consumption rate consistent with the Dietary Guidelines for Americans, equivalent to one eight-ounce meal of fish and shellfish per week)

\_\_ 142 g/day (fish consumption rate for “high consumers” described in the EPA 2000 Human Health Methodology)

\_\_ 175 g/day (fish consumption rate used by EPA and some states for high frequency consumers or subsistence fishers in the Pacific Northwest)

\_\_ Other consumption rates (please specify value in g/day)

\_\_ Not applicable

* 1. **What default value does your state or tribe use in the risk assessments as a daily fish consumption rate for subsistence or high frequency fish consumers?**

\_\_ 6.5 g/day

\_\_ 17.5 g/day

\_\_ 22 g/day

\_\_ 32 g/day (a nutritionally focused fish consumption rate consistent with the Dietary Guidelines for Americans, equivalent to one eight-ounce meal of fish and shellfish per week)

\_\_ 142 g/day (fish consumption rate for “high consumers” described in the EPA 2000 Human Health Methodology)

\_\_ 175 g/day (fish consumption rate used by EPA and some states/tribes for high frequency consumers or subsistence fishers in the Pacific Northwest in the Water Quality Standards Program)

\_\_ Other consumption rates (please specify value in g/day)

\_\_ Not applicable

* 1. **What default value does your state or tribe use in the risk assessments as a daily fish consumption rate for children?**

\_\_ 2.0 g/day

\_\_ 4.0 g/day

\_\_ 6.5 g/day

\_\_ Other consumption rates (please specify value in g/day)

\_\_ Not applicable

* 1. **What default value does your state or tribe use for exposure duration in its cancer risk assessments?**

\_\_ 30 years

\_\_ 70 years

\_\_ 75 years

\_\_ Other exposure duration (please specify value in years)

\_\_ Not applicable

* 1. **What default value does your state or tribe use to estimate life expectancy in its risk assessments?**

\_\_ 70 years

\_\_ 75 years

\_\_ 80 years

\_\_ Other life expectancy (please specify value in years)

\_\_ Not applicable

* 1. **Does your state or tribe recommend a meal frequency format or number of meals over time in its advisories (e.g., number of meals per month or meals per week)?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **What number of meals over time (e.g., per month) does your state or tribe use in its advisories?**

\_\_ 1 meal per week

\_\_ 4 meals per month

\_\_ Other (please specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. **If the response to question 54 is yes, what assumption does your state or tribe make in its risk assessments about meal size or portion for adults? (Please specify all that apply)**

\_\_ 4 oz (114 g)

\_\_ 8 oz (227 g)

\_\_ 12 oz (341 g)

\_\_ 16 oz (454 g)

\_\_ Other (please specify value in grams)

\_\_ Not applicable

* 1. **If the response to question 54 is yes, what assumption does your state or tribe make in its risk assessments about meal size or portion for children? (Please specify all that apply)**

\_\_ 4 oz (114 g)

\_\_ 8 oz (227 g)

\_\_ 12 oz (341 g)

\_\_ 16 oz (454 g)

\_\_ Other (please specify value in grams)

\_\_ Not applicable

* 1. **What default value does your state or tribe use for body weight of an average adult consumer in its risk assessments?**

\_\_ 80 kg

\_\_ 71 kg

\_\_ 70 kg

\_\_ 71 kg

\_\_ 65 kg

\_\_ Other weight (please specify value in kg)

\_\_ Not applicable

* 1. **What default value does your state or tribe use for body weight of a pregnant person and nursing mothers in its risk assessments?**

\_\_ 80 kg

\_\_ 75 kg

\_\_ 70 kg

\_\_ 65 kg

\_\_ 62 kg

\_\_ Other weight (please specify value in kg)

\_\_ Not applicable

* 1. **What default value does your state or tribe use for body weight of a child in its risk assessments?**

\_\_ 10 kg

\_\_ 14.5 kg

\_\_ 15.5 kg

\_\_ Other weight (please specify value in kg) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_ Risk assessments not conducted for children

\_\_ Not applicable

* 1. **Please specify what age range or ranges your state or tribe uses to calculate risk with respect to children. (Please specify all age ranges used in your state’s risk assessments for children.)**

\_\_ <1 year

\_\_ <6 years

\_\_ <7 years

\_\_ <12 years

\_\_ <15 years

\_\_ <18 years

\_\_ Other age ranges (please specify)

\_\_ Risk assessments not conducted for children

\_\_ Not applicable

* 1. **Does your state or tribal agency have a plan to reevaluate data from sites where outdated assessment methods were used to issue fish advisories?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **Is your state or tribe currently re-evaluating the overall method or approach used to establish fish advisories?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **What assumption does your state make in its risk assessments about the amount of the pollutant absorbed by the body after ingestion (percent absorption by the gut) (e.g., in pharmacokinetic modeling)?**

\_\_ 100% for all pollutants

\_\_ 75% for all pollutants

\_\_ 50% for all pollutants

\_\_ Chemical-specific % based on available data

\_\_ Other (please specify)

\_\_ Not applicable

* 1. **Does your state or tribe use “contaminant reduction factors” in its risk calculations to account for contaminant losses of PCBs and other organochlorine pollutants from fish tissues during cleaning, preparation, and cooking of the fish?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **If yes, what are the pollutants and their associated contaminant reduction factors (% reduction in pollutant level resulting from cleaning, preparing, and cooking of fish) assumed by your state or tribe?**

\_\_ % chlordane

\_\_ % DDE

\_\_ % DDT

\_\_ % dieldrin

\_\_ % heptachlor epoxide

\_\_ Not applicable

\_\_ % mercury

\_\_ % mirex

\_\_ % total PCBs

\_\_ % toxaphene

\_\_ % other (please specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. **If contaminant reduction factors are used, what are their basis?**

\_\_ EPA Fish Advisory Guidance Documents

\_\_ Great Lakes Consortium Protocols and Best Practices for Uniform Fish Advisories

\_\_ Scientific literature review

\_\_ Conducted own research

\_\_ Other (please specify)

\_\_ Not applicable

* 1. **Is relative source contribution (RSC) used to account for other sources or pathways of exposure (e.g., drinking water, other foods) used in fish advisories?**

\_\_ Yes \_\_ No

* 1. **If the response to question 68 is yes, specify the RSC used for the following contaminants:**

\_\_\_\_\_\_Hg \_\_\_\_\_\_PCBs \_\_\_\_\_\_PFAS

* 1. **How does your state or tribe evaluate health risks for fish samples contaminated with multiple chemicals with the same human health endpoints (e.g., two organochlorine pesticides)?**

\_\_ Cumulative risk (add individual contaminant risks from each chemical together)

\_\_ Calculate single contaminant risk based on the most conservative carcinogenic risk or noncancer benchmark value

\_\_ Either cumulative risk or single contaminant risk depending on the chemicals involved

\_\_ Other method (please specify)

\_\_ State or tribe does not evaluate health risks for multiple contaminants

\_\_ Not applicable

* 1. **Regarding mercury, does your state or tribe use the EPA RfD (0.1 ug/kg/day) for different populations (i.e., for women of child-bearing age, children and adults in the general population)?**

\_\_ Yes \_\_ No (specify, women of child-bearing age) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(specify, children)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(specify, adults in the general population) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. **Regarding PFOS, does your state or tribe use the EPA RfD (0.02 ug/kg/day)?**

\_\_ Yes \_\_ No (specify)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. **Does your state or tribe use the cancer or non-cancer value for PCBs in fish advisories?**

\_\_ Cancer \_\_ Non-cancer \_\_ Other (please specify)\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_ Not applicable

* 1. **When your state or tribe receives method detection limits (MDLs) as the reportable concentration for contaminants from the laboratory, what value are used for non-detects in your risk assessment?**

\_\_ Zero

\_\_ Pollutant’s MDL

\_\_ Half the pollutant’s MDL

\_\_ Other value (please specify)

\_\_ Maximum likelihood indicator

\_\_ Not applicable

* 1. **Does your state or tribe screen for some or all of the PFAS compounds in question 33 (excluding PFOS and PFOA) in its fish tissue samples?**

\_\_ Yes \_\_ No

* 1. **What risk assessment method does your state or tribe use for these PFAS compounds since there are no associated reference doses developed by EPA? (Please specify assessment method used)**

\_\_ Not applicable

**Targeting Fish Consumers**

* 1. **Are health risks being assessed by your state or tribe for target groups of people who may consume higher amounts of fish or prepare fish differently than the general population?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **Has your state or tribe identified the primary waterbodies fished by these target population(s)?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **Has your state or tribe made efforts to identify the fish species and the sizes of fish consumed by these target populations?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **If yes, has your state or tribe used any of the following procedures to obtain information from these target populations? (Please check all that apply)**

\_\_ Local fish consumption surveys (creel surveys)

\_\_ Fishing license surveys

\_\_ Anecdotal information from populations of interest

\_\_ Behavioral risk surveillance surveys funded by the Centers for Disease Control and Prevention

\_\_ Other (please specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_ Not applicable

* 1. **Has your state or tribe altered its monitoring approach to address the needs of these target populations?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **If your state or tribe has altered its monitoring approach to address the needs of these target populations, what actions have been taken? (Please check all that apply)**

\_\_ Added stations in waterbodies where the targeted populations frequently fish

\_\_ Collected species consumed by the target populations for contaminant analyses

\_\_ Other actions (please specify)

\_\_ Not applicable

* 1. **If your state or tribe is not currently addressing the concerns of populations with a perceived higher risk, is there a plan to do so in the future?**

\_\_ Yes \_\_ No \_\_ Not applicable

**Risk Management**

* 1. **Who prepares risk assessments on behalf of your state or tribal fish advisory program? (Please check all that apply)**

\_\_ State or Tribal Environmental Agency/Department

\_\_ State or Tribal Public Health Agency/Department

\_\_ State or Tribal Fisheries Agency/Department

\_\_ Consultant

\_\_ University

\_\_ Other (please specify)

\_\_ Not applicable

* 1. **Does your state or tribe have written procedures for evaluating the health risks associated with consumption of contaminated fish?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **Does your state or tribe have a group or committee that oversees the fish advisory program/processes?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **If the answer to question 86 is yes, what professional disciplines are represented on that committee? (Please check all that apply)**

\_\_ Toxicology/epidemiology

\_\_ Fisheries biologist

\_\_ Water pollution assessment/control

\_\_ Hazardous waste management

\_\_ Analytical chemist

\_\_ Risk communication

\_\_ Other disciplines (please specify)

\_\_ Not applicable

* 1. **Who in your state or tribe makes the ultimate risk management decision to issue, modify, or rescind fish advisories?**

\_\_ Head of Environmental Agency/Department

\_\_ Head of Public Health Agency/Department

\_\_ Head of Fisheries Agency/Department

\_\_ Governor’s Office or Tribal Chief’s/President’s Office

\_\_ Other (please specify)

\_\_ Not applicable

**Risk Communication Procedures**

* 1. **Is your state or tribe aware of recently released update to** [**EPA’s Risk Communication Guidance (Volume 4)**](https://www.epa.gov/fish-tech/develop-risk-communication-programs-fish-and-shellfish-consumption-advisories) **?**

\_\_ Yes \_\_ No

* 1. **If your response to question 89 is yes, is the guidance useful?**

\_\_ Yes \_\_ No

Provide Comments:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. **How often does your Agency revise the fish consumption advisory listings and release the information to the public? (Please check all that apply)**

\_\_ Annually; released on (specify date: Day/Month)

\_\_ Whenever data become available (on an as-needed basis)

\_\_ Other schedules (please specify)

\_\_ Not applicable

* 1. **How are your Agency's fish advisories communicated to the public? (Please check all that apply)**

\_\_ Social Media (specify)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_ Mailed to public upon request

\_\_ Press releases distributed to media sources

\_\_ Targeted newspaper stories

\_\_ Published articles in ethnic newspapers

\_\_ Videos for ethnic groups

\_\_ Radio announcements

\_\_ Television announcements \_\_ Radio/television talk shows

\_\_\_Podcasts

\_\_ Internet site

\_\_ Agency telephone information service (i.e., hotlines)

\_\_ Agency magazine

\_\_ Posted signs (at boat launches, stream access points, public docks, etc.)

\_\_ Posted information where fishing licenses issued \_\_ Posters in public places (libraries, town halls, etc) \_\_ Annual fishing regulations booklet

\_\_ Generic statewide listing booklet separate from fishing regulations

\_\_ Printed pamphlets or fact sheets

\_\_ Information presented at public meetings

\_\_ Publication of articles in state medical journal

\_\_ Publication of articles in agency annual monitoring report

\_\_ Publication of information in state 305(b) report

\_\_ Flyers distributed with trout and salmon stamps

\_\_ GIS maps posted

\_\_ Other methods (please specify)

\_\_ Not applicable

* 1. **Where can the public obtain copies of your agency’s printed advisory materials? (Please check all that apply)**

\_\_ Local public health departments

\_\_ State or tribal public health departments

\_\_ State or tribal Internet site

\_\_ Other State agencies

\_\_ Doctors' offices

\_\_ Local businesses (e.g., hair styling salons)

\_\_ Businesses that issue fishing licenses (e.g., bait and tackle shops)

\_\_ WIC (Women, Infants, and Children) clinics

\_\_ Welfare offices

\_\_ Organizations (e.g., sporting or women's clubs)

\_\_ Tourist offices

\_\_ State or tribal fisheries offices

\_\_ Town halls

\_\_ Law enforcement officers

\_\_ Other sources (please specify)

\_\_ Not applicable

* 1. **Does your state or tribal fish advisory outreach or communication plan specifically target some populations to receive advisory information?**

\_\_ Yes \_\_ No \_\_ Not applicable

* 1. **If yes, please identify all targeted populations. (Please check all that apply)**

\_\_ Sport fishers

\_\_ Subsistence fishers

\_\_ Specific racial/ethnic groups (please specify)

\_\_ Women of child-bearing age

\_\_ Pregnant or nursing women

\_\_ New parents

\_\_ Tourists

\_\_ Members of the general population

\_\_ Others (please specify)

\_\_ Not applicable

* 1. **Are your state or tribal fish consumption advisories available to the public in languages other than English?**

\_\_ Yes \_\_ No \_\_ Not applicable

|  |  |  |  |
| --- | --- | --- | --- |
| * 1. **If yes, please specify all languages that apply.** | | | |
| \_\_ | Alaskan native languages | \_\_ | Llacano |
| \_\_ | Bosnian | \_\_ | Ojibwa |
| \_\_ | Cambodian | \_\_ | Portuguese |
| \_\_ | Chinese | \_\_ | Russian |
| \_\_ | Creole | \_\_ | Spanish |
| \_\_ | Hmong | \_\_ | Tagalog |
| \_\_ | Japanese | \_\_ | Thai |
| \_\_ | Korean | \_\_ | Vietnamese |
| \_\_ | Laotian | \_\_ | Others (please specify) |
|  |  | \_\_ | Not applicable |

**98. Does your state or tribe evaluate the effectiveness of the fish consumption advisories?**

\_\_ Yes \_\_ No \_\_ Not applicable

**99. If yes, how is their effectiveness determined? (Please check all that apply)**

\_\_ Feedback form/postcard in regulation pamphlet

\_\_ Questions included in creel census program

\_\_ Questions included in state BRFS (Behavior Risk Factor Survey)

\_\_ Focus groups

\_\_ Mailed questionnaires (to whom?)

\_\_ Telephone surveys (of whom?)

\_\_ Other methods (please specify)

\_\_ Not applicable

**100. To your knowledge, have there been any studies in your state (including federal, tribal, and university-based studies) to evaluate the effectiveness of fish consumption advisories?**

\_\_ Don’t know

\_\_ No

\_\_ Yes (please specify)

**101. To your knowledge, have there been any studies in your state (including federal, tribal, and university-based studies) to evaluate human tissue contaminant levels (e.g., in blood, urine, breast milk, or adipose tissues) or adverse human health effects related to fish consumption?**

\_\_ Don’t know

\_\_ No

\_\_ Yes (please specify organization or agency)

1. “States” in this document includes the 50 states, the District of Columbia, Guam, the Commonwealth of Puerto Rico, the U.S. Virgin Islands, American Samoa, and the Commonwealth of the Northern Mariana Islands. [↑](#footnote-ref-2)