

DW / PFAS Survey

Start of Block: Base

Q1

Consent

Title of Research Study: National Survey of PFAS and Drinking Water Quality Awareness

Investigator: Allen Berthold, PhD, Interim Director, Texas Water Resources Institute, Texas A&M AgriLife

Why am I being asked to participate?

You are being asked to participate because we are trying to learn more about the general public's awareness of PFAS and experience with drinking water quality. You were selected as a participant in this study because you may be a member of the general population of the United States. You must be 18 years of age or older to participate.

Why is this research study being done?

The purpose of this survey is to measure the general public's awareness, concern, and intentions regarding exposure to PFAS chemicals. We are also measuring the general public's awareness, concern, and intentions regarding their drinking water sources.

How long will the survey take?

It takes approximately 5-7 minutes to complete the survey.

What happens if I say "Yes, I want to be in this research study"?

If you decide to participate, please do the following: reflect on your current experience related to your drinking water and PFAS. Answer all questions to the best of your ability. Select answers that most closely represent your experience.

What happens if I do not want to be in this research study?

Accepting or declining participation is up to you. You can choose not to participate entirely or stop participation at any time. Your decision will not be held against you.

Is there any way being in this study could harm me?

There are no sensitive questions in this survey that should cause discomfort. However, you can exit the survey at any point if there is a question you do not wish to answer.

What happens to the information collected for the research?

You may review the Qualtrics data privacy policy at: www.qualtrics.com/privacy-statement/. No direct personal identifiers will be collected. Your information will be kept confidential to the extent allowed by law. The summarized results of the study may be published but your identity

will remain confidential.

Who can I talk to about this survey?

If you have questions, concerns, or complaints you are invited to contact the research team: Allen Berthold (Primary Investigator) may be contacted at taberthold@ag.tamu.edu or Audrey McCrary (Program Specialist) at audrey.mccrary@ag.tamu.edu.

This research has been reviewed and approved by the Texas A&M Institutional Review Board (IRB) as study number IRB2023-0272M. You may contact them at 1-979-458-4067, toll free at 1-855-795-8636, or by email at irb@tamu.edu. Contact the IRB if: You cannot reach the research team. Your questions, concerns, or complaints are not being answered by the research team. You want to talk to someone besides the research team. You have questions about your rights as a research participant. You want to get information or provide input about this research.

Please indicate your consent to participate below. You may print or screenshot this page for your records.

If you wish to participate, please click "I agree". You will be taken to the survey.

If you do not wish to participate, please click "I disagree" or exit this tab in your internet browser.

- ☐ I agree, take me to the survey (1)
- ☐ I disagree, I do not want to participate (2)

Page Break

Q2 Which best describes your gender?

- ☐ Male (1)
- ☐ Female (2)
- ☐ Other (3)
- ☐ Prefer not to answer (4)

Q3 How old are you?

- ☐ 18 - 24 years old (1)
- ☐ 25 - 34 years old (2)
- ☐ 35 - 44 years old (3)
- ☐ 45 - 54 years old (4)
- ☐ 55 - 64 years old (5)
- ☐ 65+ years old (6)
- ☐ Prefer not to answer (7)

Q4 Which best describes your ethnicity or race?

- ☐ American Indian/Native American or Alaska Native (1)
- ☐ Asian (2)
- ☐ Hispanic or Latino or Spanish Origin of any race (3)
- ☐ Black or African American (4)
- ☐ Native Hawaiian or Other Pacific Islander (5)
- ☐ White or Caucasian (6)
- ☐ Other (7)
- ☐ Prefer not to answer (8)

Q5 What is the source of your household tap water?

- ☐ Public supply - municipal (1)
- ☐ Public supply - rural water district (2)
- ☐ Private supply - private well, river, pond, lake (3)
- ☐ Private supply - rainwater harvest system (4)
- ☐ I don't know (5)
- ☐ Other (describe): (6) _____

Q6 What is your main source of drinking water?

- ☐ Unfiltered tap water (1)
- ☐ Filtered tap water (6)
- ☐ Bottled / prepackaged water (2)
- ☐ Other (describe): (3) _____

Q7 Has your primary source of drinking water ever been impacted by any of the following issues? Select all that apply.

- ☐ Odd taste (1)
- ☐ Odd smell (2)
- ☐ Discolored water (3)
- ☐ Cloudy water (4)
- ☐ Staining of clothes, teeth, or skin (5)
- ☐ Saltiness (high salt content) (6)
- ☐ Hardness or scale buildup (high mineral content) (7)
- ☐ Corrosion of pipes or water fixtures (8)
- ☐ Boil water notice (9)
- ☐ Water shortage (10)
- ☐ None of the above (11)
- ☐ Other (describe): (12) _____

Q8 On a scale from 0 to 10, how safe do you believe your drinking water is for consumption?

- ☐ 0 (0)
- ☐ 1 (1)
- ☐ 2 (2)
- ☐ 3 (3)
- ☐ 4 (4)
- ☐ 5 (5)
- ☐ 6 (6)
- ☐ 7 (7)
- ☐ 8 (8)
- ☐ 9 (9)
- ☐ 10 (10)

Q9 To your knowledge, has your primary source of drinking water been impacted by any of the following contaminants?

Select all that apply.

- ☐ Disinfection byproducts (DBPs) (1)
- ☐ Fertilizers (nitrates, phosphates) (2)
- ☐ Heavy metals (lead, arsenic, mercury, etc.) (3)
- ☐ Industrial chemicals (4)
- ☐ Microplastics (5)
- ☐ PFAS (per- and polyfluoroalkyl substances) (6)
- ☐ Pathogens (bacteria, viruses, amoebas) (7)
- ☐ Pesticides (8)
- ☐ Petroleum products (9)
- ☐ Pharmaceuticals (10)
- ☐ None of the above (11)
- ☐ Other (describe): (12) _____

Q10 How familiar are you with the following contaminants of drinking water?

	Not at all familiar (1)	Slightly familiar (2)	Moderately familiar (3)	Very familiar (4)	Extremely familiar (5)
Disinfection byproducts (DBPs) (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fertilizers (nitrates, phosphates) (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Heavy metals (lead, arsenic, mercury, etc.) (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Industrial chemicals (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Microplastics (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PFAS (per- and polyfluoroalkyl substances) (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pathogens (bacteria, viruses, amoebas) (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pesticides (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Petroleum products (9)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pharmaceuticals (10)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q11 How concerned are you about the following contaminants being in your drinking water?

	Not at all concerned (1)	Slightly concerned (2)	Moderately concerned (3)	Very concerned (4)	Extremely concerned (5)
Disinfection byproducts (DBPs) (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fertilizers (nitrates, phosphates) (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Heavy metals (lead, arsenic, mercury, etc.) (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Industrial chemicals (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Microplastics (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
PFAS (per- and polyfluoroalkyl substances) (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pathogens (bacteria, viruses, amoebas) (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pesticides (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Petroleum products (9)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pharmaceuticals (10)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Page Break

Q12 How often do you use the following sources to get information about drinking water quality?

	Never (1)	Occasionally (2)	Sometimes (3)	Often (4)	Always (5)
Local news agency (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
National news agency (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local newspaper (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
National newspaper (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Social media (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Radio or podcast (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Word of mouth (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Email (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Government agencies (9)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My water provider (10)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other (describe): (11)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Page Break

Q13 For each of the following, please select the response that best fits actions you might take to improve your drinking water quality:

	Will never do this (1)	Might do this (2)	Plan to do this (3)	Currently doing this (4)	Not sure (5)
Drink bottled water instead of tap water (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use a point- of-use water treatment system (ex: under-sink filter) (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use a whole- home water treatment system (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use a filtered water pitcher (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use filtered water from an appliance (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Page Break

Q14 What level of responsibility should the following entities have for making sure drinking water is safe for consumption?

	No responsibility (1)	Some responsibility (2)	Moderate responsibility (3)	Most responsibility (4)	Full responsibility (5)
Federal government (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
State government (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local government (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water utility (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Landlords / property managers (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Household residents (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Page Break

Q15 What is your level of trust in the following entities for making sure drinking water is safe for consumption?

	Do not trust at all (1)	Somewhat trust (2)	Moderately trust (3)	Mostly trust (4)	Fully trust (5)
Federal government (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
State government (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local government (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water utility (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Landlords / property managers (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Household residents (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

End of Block: Base

Start of Block: PFAS

Q16 To your knowledge, has your community been exposed to PFAS (per- and polyfluoroalkyl substances)?

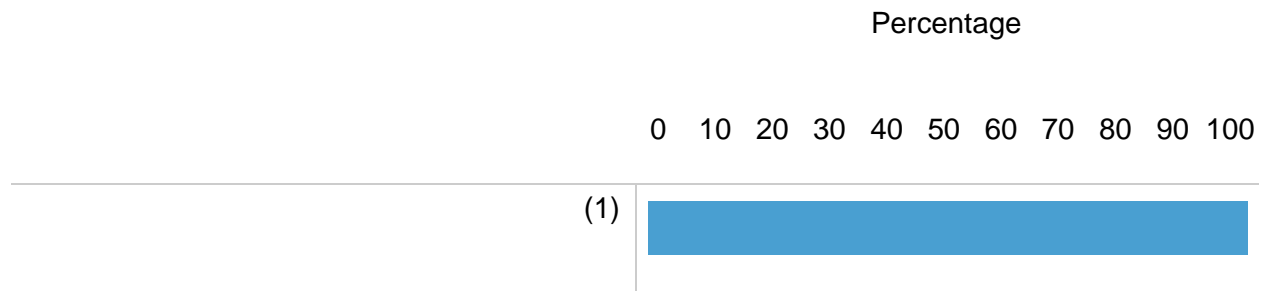
- ☐ Yes (1)
- ☐ No (2)
- ☐ Not sure (3)

Q17 How would you describe your knowledge about PFAS (per- and polyfluoroalkyl substances) as an environmental contaminant?

- ☐ I've never heard of it, and don't know what it is (1)
- ☐ I've heard of it or seen it somewhere, but don't know what it is (2)
- ☐ I think I know what it is (3)
- ☐ I'm confident I know what it is (4)

Q18 What percentage of the U.S. population do you think has been exposed to PFAS (per- and polyfluoroalkyl substances)?

Click on the bar to adjust the number.



Q19 How familiar are you with the following items as potential sources of PFAS (per- and polyfluoroalkyl substances) contamination?

	Not at all familiar (1)	Slightly familiar (2)	Moderately familiar (3)	Very familiar (4)	Extremely familiar (5)
Drinking water (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public waterways near waste disposal sites (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Soils near waste disposal sites (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dairy products (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fresh produce (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Freshwater fish (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Seafood (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Food packaging (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Non-stick cookware (9)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Personal hygiene products (10)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Household products (fabrics, cleaning products, paints & sealants) (11)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fire extinguishing foams (12)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fertilizers from wastewater treatment plants (13)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q20 Please rate your intention to change your use of the following items because of their potential for PFAS (per- and polyfluoroalkyl substances) contamination:

	Will never change (1)	Might change (2)	Planning to change (3)	Have already changed (4)	Not sure (5)
Drinking water (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public waterways near waste disposal sites (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Soils near waste disposal sites (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dairy products (4)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fresh produce (5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Freshwater fish (6)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Seafood (7)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Food packaging (8)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Non-stick cookware (9)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Personal hygiene products (10)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Household products (fabrics, cleaning products, paints & sealants) (11)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fire extinguishing foams (12)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fertilizers from wastewater treatment plants (13)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

End of Block: PFAS

Start of Block: Demographics

Q21 Please enter your zip code:

- ☐ ZIP code (1) _____

Q22 What type of housing is your primary residence?

- ☐ Single family house (1)
- ☐ Townhouse / duplex (2)
- ☐ Apartment building with 4 or fewer units (3)
- ☐ Apartment building with more than 4 units (4)
- ☐ Manufactured / mobile home (5)
- ☐ Institutional housing or dorm (6)
- ☐ Other (describe): (7) _____
- ☐ Prefer not to answer (8)

Q23 Do you own or rent your primary residence?

- ☐ Own (1)
- ☐ Rent (2)
- ☐ Prefer not to answer (3)

Q24 Which best describes your occupation?

- ☐ Agriculture (1)
- ☐ Education (2)
- ☐ Entertainment (3)
- ☐ Finance (4)
- ☐ Food service (5)
- ☐ Healthcare (6)
- ☐ Hospitality (7)
- ☐ Information services (8)
- ☐ Military (9)
- ☐ Technology (10)
- ☐ Utilities (11)
- ☐ Unemployed (12)
- ☐ Other (describe): (13) _____
- ☐ Prefer not to answer (14)

Q25 What is your highest level of formal education?

- ☐ Some high school (1)
- ☐ High school graduate / GED (2)
- ☐ Associate degree (3)
- ☐ Bachelor's degree (4)
- ☐ Master's degree (5)
- ☐ Doctorate or terminal degree (6)
- ☐ Other (7)
- ☐ Prefer not to answer (8)

Q26 What is your household income before taxes?

- ☐ Less than \$25,000 (1)
- ☐ \$25,000 - 49,999 (2)
- ☐ \$50,000 - 74,999 (3)
- ☐ \$75,000 - 99,999 (4)
- ☐ \$100,000 - 200,000 (5)
- ☐ More than \$200,000 (6)
- ☐ Prefer not to answer (7)

Q27 How many people are in your household?

A household is a group of people who share the same residence, including people who may not be related.

- Number of people: (1) _____