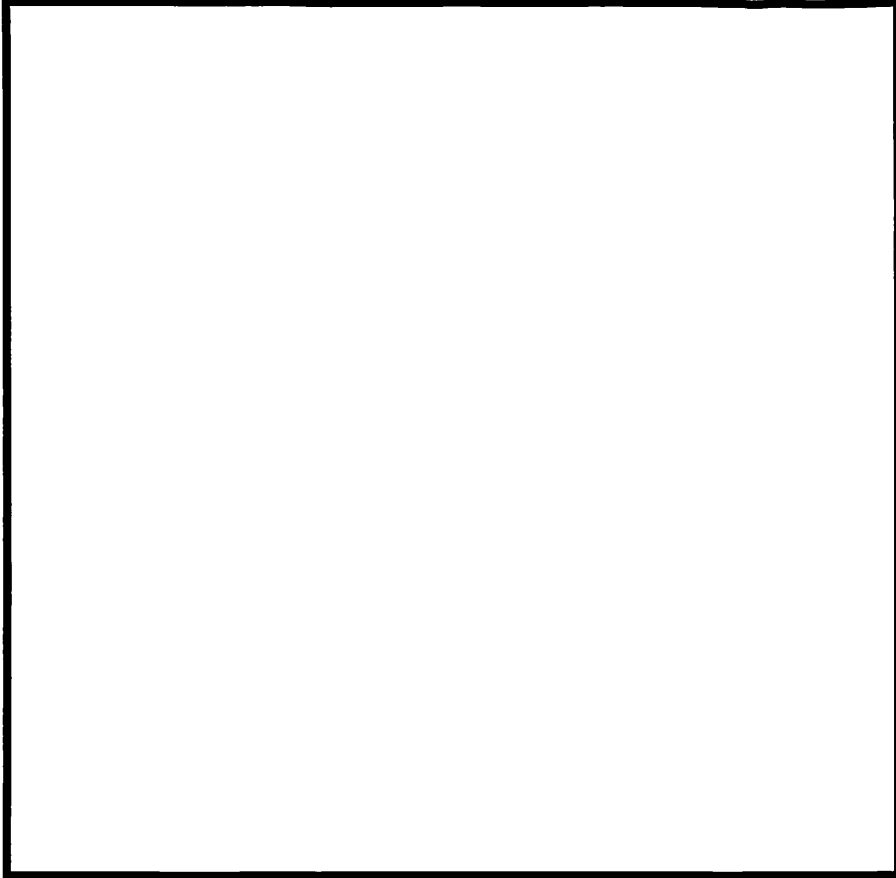


Your comments will be appreciated, either here or in a separate envelope.



WATER ISSUES IN HAWAII



A survey of public attitudes in Hawaii

Please return your completed questionnaire in the enclosed envelope to:

R.L. Mahler
Water Quality, PSES
PO Box 442339
Moscow, Idaho 83844-2339

**Sponsored by:
University of Hawaii
University of Idaho**

January 2010

WATER ISSUES IN HAWAII

HOW DO YOU FEEL ABOUT THE ENVIRONMENT?

How important are each of the following water issues to you? (Circle **one** answer per question)

Issue	Not important	Somewhat important	No opinion	Important	Very important
1. Clean rivers and streams	N	S	O	I	V
2. Clean marine water	N	S	O	I	V
3. Clean bays and estuaries	N	S	O	I	V
4. Clean water for near shore fishing	N	S	O	I	V
5. Clean beaches	N	S	O	I	V
6. Clean drinking water	N	S	O	I	V
7. Clean groundwater	N	S	O	I	V
8. Water for commerce/ industry/power generation	N	S	O	I	V
9. Water for household landscapes	N	S	O	I	V
10. Water for agriculture	N	S	O	I	V
11. Water for aquatic habitat	N	S	O	I	V
12. Water for recreation	N	S	O	I	V
13. Water for municipal use	N	S	O	I	V
14. Water for tourism	N	S	O	I	V

57. What is your primary island of residence?

- a. O'ahu
- b. Hawai'i
- c. Maui
- d. Kaua'i
- e. Moloka'i
- f. Lāna'i

THANK YOU FOR YOUR HELP

PLEASE ANSWER THE FOLLOWING AS THEY PERTAIN TO YOU

50. Where do you live?
 a. Inside city or town
 b. Outside city / town, non-agricultural
 c. Outside city / town, agricultural
51. The population of the city/town in which you live is:
 a. More than 100,000 people
 b. 25,000 to 100,000 people
 c. 7,000 to 25,000 people
 d. 3,500 to 7,000 people
 e. Less than 3,500 people
52. What is your zip code?
 ZIP CODE _____
53. How long have you lived in Hawaii?
 a. All my life
 b. More than 10 years, but not all my life
 c. 5 to 9 years
 d. Less than 5 years
54. What is your gender?
 a. Male
 b. Female
55. What is your age?
 _____ years old
56. What is the highest level of education you have completed?
 a. Less than high school or some high school
 b. High school graduate
 c. Some college or vocational training
 d. College graduate
 e. Advanced college or other professional degree

How important are the following actions in protecting our water resources? (Circle **one** answer per question)

Issue	Not important	Somewhat important	No opinion	Important	Very important
15. Treating stormwater runoff	N	S	O	I	V
16. Improving wastewater treatment	N	S	O	I	V
17. Residential water conservation	N	S	O	I	V
18. Building new water storage structures (dams, reservoirs)	N	S	O	I	V
19. Improving home and garden practices	N	S	O	I	V
20. Preserving & restoring buffer zones & wetlands	N	S	O	I	V
21. Improving agricultural practices	N	S	O	I	V
22. Preserving agricultural land & open space	N	S	O	I	V
23. Better management of recreational activities (boating, fishing, ATVs)	N	S	O	I	V
24. Better management of shoreline access to prevent erosion	N	S	O	I	V
25. Improving water quality monitoring to detect pollution	N	S	O	I	V
26. Making water quality and quantity data available to public	N	S	O	I	V
27. Educating county (municipal) officials	N	S	O	I	V

DRINKING WATER ISSUES

28. Where do you primarily get your drinking water? (Circle **one** answer)
- Private supply (private well, catchment, stream, reservoir)
 - Public supply – county, city, or municipal
 - Purchase bottled water
 - I don't know

29. Please **check all** of the boxes that apply to your home drinking water system.

- I have a water treatment system (softener, etc.)
- I have a water filter
- I purchase 5 gallon containers of drinking water
- I often use bottled water for drinking purposes
- I never buy bottled water
- I am satisfied with my drinking water (piped in house)
- I am not satisfied with my current drinking water (piped in house)
- My drinking water is separate from my water supply system

30. Do you feel that your home tap drinking water is safe to drink?

- Yes
- No

31. Do you have your home drinking water tested?

- Yes
- No

32. How important are the following characteristics that you consider when you choose your drinking water (private supply, public supply, bottled)? (Circle **one** answer per characteristic)

Characteristic	Not important	Somewhat important	No opinion	Important	Very important
a. Taste	N	S	O	I	V
b. Smell	N	S	O	I	V
c. Appearance	N	S	O	I	V
d. Convenience	N	S	O	I	V
e. Health concerns (e.g. risk of illness or death from your source of drinking water)	N	S	O	I	V
f. Other	N	S	O	I	V

47. Have you participated in any of the following activities? (Circle **all** that apply)

- Master Gardener program
- Volunteer water quality monitoring
- Lake, river, bay, wetland, or watershed protection groups
- County, municipal, or neighborhood meetings

48. If you had the following kinds of learning opportunities to learn more about water issues, which would you be most likely to take advantage of? (Check up to **3** items)

- Read printed fact sheets, bulletins, or brochures
- Visit a web site
- Attend a short course or workshop
- Look at a demonstration or display
- Read a newspaper article or series
- Watch TV coverage
- Watch a video of information
- Take part in a onetime volunteer activity (for example, water monitoring, streamside restoration, or education)
- Take a course for certification or credit
- Get trained for a regular volunteer position (for example, as a watershed steward or a water quality monitor)
- Learn how to conduct a home, farm, or workplace water practices assessment
- Attend a fair or festival

49. Do you think that the amount of rainfall in your area will change as a result of climate change?

- Yes, a significant increase in rainfall
- Yes, a slight increase in rainfall
- No, no change in rainfall
- Yes, a slight decrease in rainfall
- Yes, a significant decrease in rainfall
- I don't know

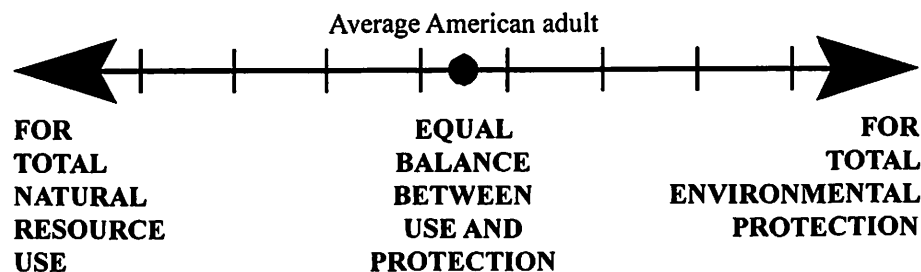
44. Have you or someone in your household done any of the following in the last five years as part of an individual or community effort to conserve water or preserve water quality? (Check **all** that apply)

- Changed the way your yard is landscaped
- Changed how often you water your yard
- Changed your use of pesticides, fertilizers, or other chemicals
- Pumped your septic system (if you have one)
- Adopted new technologies (low flow faucets, etc.)

45. Have you received water resources information from the following sources? (Check **one** box per source)

	Yes	No
a. Cable television	<input type="checkbox"/>	<input type="checkbox"/>
b. Network television	<input type="checkbox"/>	<input type="checkbox"/>
c. Public television	<input type="checkbox"/>	<input type="checkbox"/>
d. Local newspapers	<input type="checkbox"/>	<input type="checkbox"/>
e. Major newspapers	<input type="checkbox"/>	<input type="checkbox"/>
f. Extension	<input type="checkbox"/>	<input type="checkbox"/>
g. Universities	<input type="checkbox"/>	<input type="checkbox"/>
h. Schools (K-12)	<input type="checkbox"/>	<input type="checkbox"/>
i. Environmental agencies	<input type="checkbox"/>	<input type="checkbox"/>
j. Environmental groups	<input type="checkbox"/>	<input type="checkbox"/>
k. Magazines	<input type="checkbox"/>	<input type="checkbox"/>
l. Radio	<input type="checkbox"/>	<input type="checkbox"/>
m. Friends and family	<input type="checkbox"/>	<input type="checkbox"/>
n. Internet	<input type="checkbox"/>	<input type="checkbox"/>

46. Please place an X on the line below to indicate how you see yourself on environmental issues:



33. Which, if any, of the following have you experienced with the tap water in your home over the past year? (Check **all** that apply)

- Rusty color
- Sediment (particles at the bottom of a glass)
- Unpleasant smell
- Unpleasant taste
- Hard water / mineral deposits
- Pollutants or other contamination
- Other
- None of the above

34. In your opinion, how do bottled and tap water compare? (Check **all** that apply)

- Bottled water is safer than tap water
- Bottled water is of higher quality than tap water
- Bottled water tastes and/or smells better than tap water
- There are no differences between bottled water and tap water
- Tap water is safer than bottled water
- Tap water is of higher quality than bottled water
- Tap water tastes and/or smells better than bottled water

PROTECTING AND PRESERVING WATER RESOURCES

35. In your opinion, what is the quality of surface waters (rivers, streams, ponds, and wetlands) where you live?

- a. Good or excellent
- b. Good, and improving
- c. Good, but deteriorating
- d. Fair
- e. Poor, but improving
- f. Poor
- g. No opinion / don't know

36. In your opinion, what is the quality of ocean waters off the coast of the Hawaiian Islands?

- a. Good or excellent
- b. Good, and improving
- c. Good, but deteriorating
- d. Fair
- e. Poor, but improving
- f. Poor
- g. No opinion / don't know

37. Do you regard water quantity (having enough water) as a problem in the area where you live? (Circle one answer)

- a. Definitely not
- b. Probably not
- c. I don't know
- d. Probably
- e. Definitely yes

38. Do you know of or suspect that any of the following pollutants affect either surface or groundwater quality in your area?

Pollutant	Know it is NOT a problem	Suspect it is NOT a problem	Don't know	Suspect it IS a problem	Know it IS a problem
a. Pathogens (bacteria, viruses, germs)	1	2	3	4	5
b. Fertilizer/Nitrates	1	2	3	4	5
c. Fertilizer/Phosphates	1	2	3	4	5
d. Heavy metals (lead, arsenic, mercury)	1	2	3	4	5
e. Minerals (iron, manganese, calcium)	1	2	3	4	5
f. Pesticides	1	2	3	4	5
g. Salinity (water too salty)	1	2	3	4	5
h. Pharmaceuticals (antibiotics, personal care products)	1	2	3	4	5
i. Petroleum products	1	2	3	4	5
j. Algae	1	2	3	4	5
k. Product and waste water from mining	1	2	3	4	5
l. Septic systems	1	2	3	4	5

39. In your opinion, which of the following are most responsible for the existing pollution problems in rivers, water bodies, and coastline in Hawaii? (Check up to 3 answers)

- Agriculture – crops
- Agriculture – animals
- Erosion from roads and/or construction, repair
- Industry
- Military bases
- Septic systems
- Runoff from home landscapes
- Stormwater runoff
- Landfills
- Wastewater treatment plants
- New suburban development
- Outdoor recreation

40. Do you know what a watershed (ahupua'a) is? (Check one box)

- Yes
- No

41. How well do you feel each one of these groups is fulfilling their responsibility for protecting water resources in your community? (Circle one answer per group)

Group	Very well	Moderately well	Don't know	Somewhat poorly	Very poorly
a. Federal government	1	2	3	4	5
b. State government	1	2	3	4	5
c. Your county, city, or town	1	2	3	4	5
d. Individual citizens	1	2	3	4	5

42. The likelihood of your area suffering from a prolonged drought is:

- a. Increasing
- b. Decreasing
- c. Staying the same
- d. No opinion

43. The likelihood of your area having enough water resources to meet all of its needs 10 years from now is:

- a. High (likely enough water)
- b. Medium
- c. Low (likely not enough water)
- d. No opinion