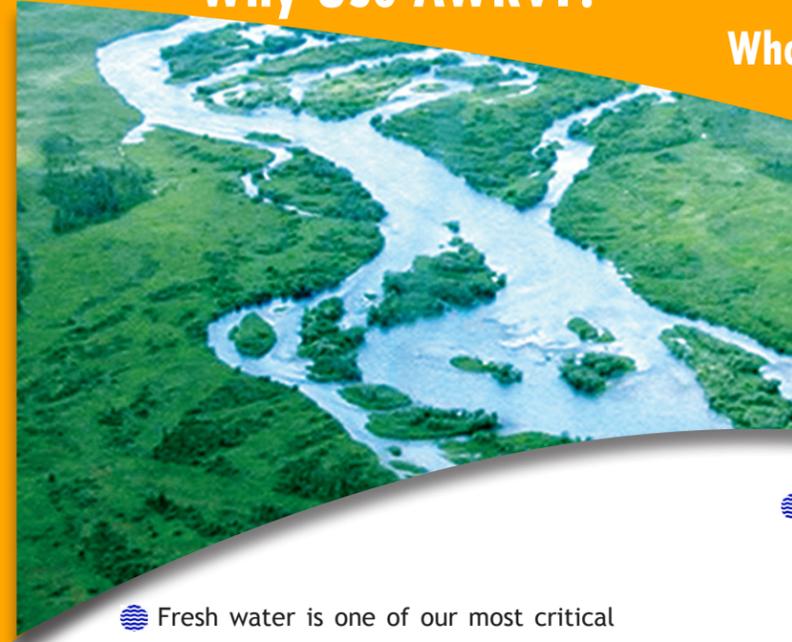


Why Use AWRVI?



- Fresh water is one of our most critical resources.
- Being able to see the 'big picture' of the water that communities rely on is an important asset in the decision-making process.
- Cumulative impacts in a watershed can be assessed through this decision-support and community-building tool.
- It provides a framework to map and access water resources, use-values and potential vulnerabilities under certain conditions.
- It is designed to be used specifically in the Arctic's varied and unique environment.

Who Developed AWRVI?

- Researchers from the Resilience and Adaptive Management Group, the Water and Environmental Research Center, the Institute of Northern Engineering, and the International Arctic Research Center, University of Alaska.
- The Center for the Study of Complex Systems, University of New Hampshire.
- Alaska Science Center, The U.S. Geological Survey.
- The developers came from diverse cultural backgrounds, including small, resource-dependent communities.

How Do I Access AWRVI?

- AWRVI is available at <http://ram.uaa.alaska.edu/AWRVI>
- To request a hardcopy of the details of AWRVI, please contact:
The Resilience and Adaptive Management Group,
University of Alaska Anchorage
3211 Providence Drive
Anchorage, AK 99508
Phone: 907-786-1136
Fax: 907-786-1314

Summary of AWRVI indicators:

Sub-index	Component	Indicator
AWRVI Physical	Natural supply	Precipitation
		Surface water storage
		River runoff
	Municipal supply	Reservoir and well yield
		Treatment technology
		Hydraulic gradient
		Water source diversity
	Quality	Water quality
		Upstream development
	Permafrost status	Permafrost distribution
Subsistence habitat	Aquatic subsistence habitat	
	Terrestrial subsistence habitat	
AWRVI Social	Knowledge	Traditional knowledge
		Education
		Residency
	Financial	Community wealth
	Information capacity	Land tenure
	Sensitivity to change	Community values
Social network diversity		
Perception of change		

Why Was AWRVI Developed?

- No index exists to assess resilience and vulnerability of people in the Arctic to changes in water resources.
- Freshwater is critical to the sustainability of people in the Arctic.
- People in the Arctic face uncertainty in their day-to-day lives due to environmental changes.
- The need for Arctic communities to determine their vulnerability to changes in freshwater resources is becoming more urgent.

• The Arctic is a unique environment with a challenging set of factors including remote communities with poorly developed infrastructure and high energy costs, a rapidly changing climate, and variable abundance of liquid water much of the year.

Who do I contact for more information?

Lilian Alessa Andrew Kliskey
afla@uaa.alaska.edu afadk@uaa.alaska.edu
Tel: 907-786-1507 Tel: 907-786-1136

Resilience and Adaptive Management Group

University of Alaska Anchorage
3211 Providence Dr
Anchorage, AK 99508-4614



Graphic Design by Alejandro IV Barragán

THE ARCTIC WATER RESOURCES VULNERABILITY INDEX

What is AWRVI?

• A composite water index to evaluate the well-being of Arctic communities with respect to fresh water and a tool comprised of 27 socio-economic (e.g., social network capacity), biological (e.g., subsistence habitat) and physical (e.g., variation in precipitation) indicators.

- AWRVI integrates a range of existing and community-specific water-related data and information into a series of indicators to give an overall score.
- It provides a holistic profile of a community's key water issues, allowing for intra-community and inter-community comparison and analysis.
- It can be used by a community to identify where strengths and weaknesses exist regarding water management issues.

AWRVI

