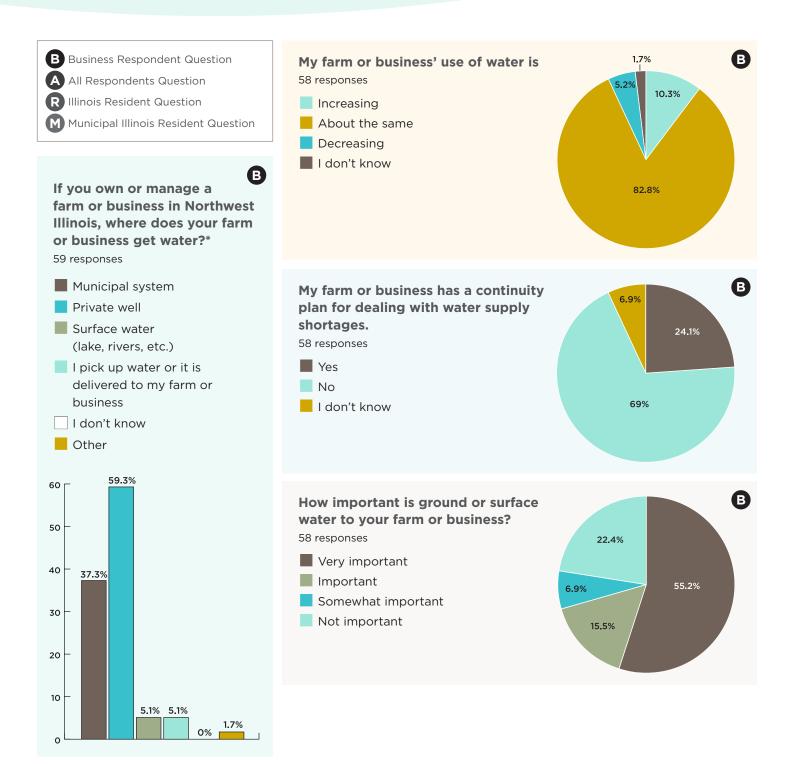
Northwest Illinois Water Study WATER DEMAND/SUPPLY SURVEY RESULTS - 2018

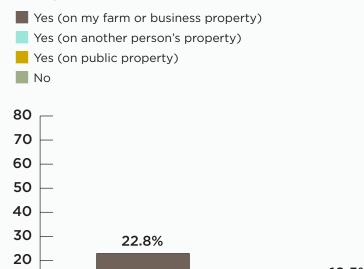
(159 respondents participated in total**)

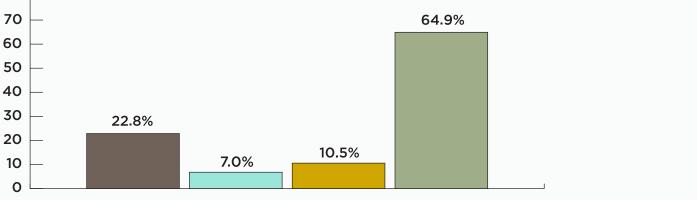


*Respondents could check multiple responses.

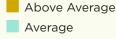
**Respondents were asked to skip non-applicable sections or questions.

Does your farm or business in Northwest Illinois have stormwater runoff issues?* 57 responses

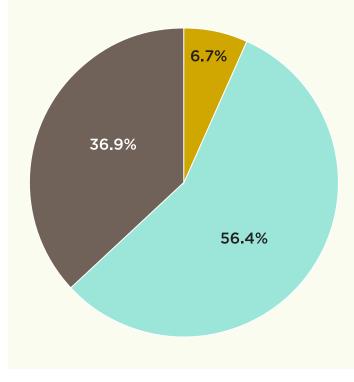


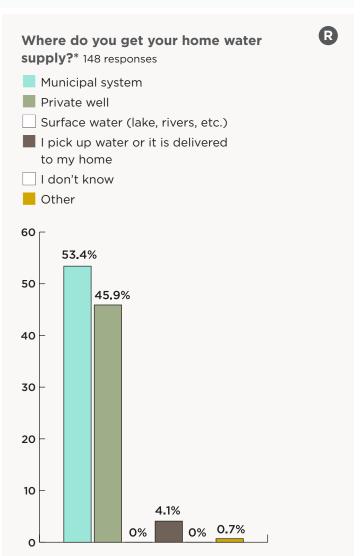


R The average person uses (e.g., drinking, showering, cooking, etc.) 80 to 100 gallons of water per day. How much water do you think you consume per day? 149 responses



Below Average

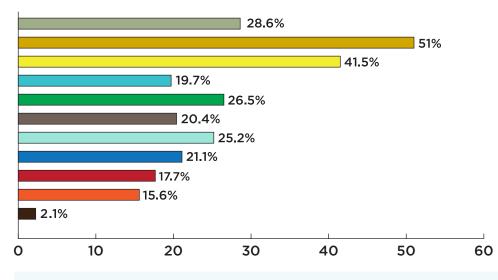




В

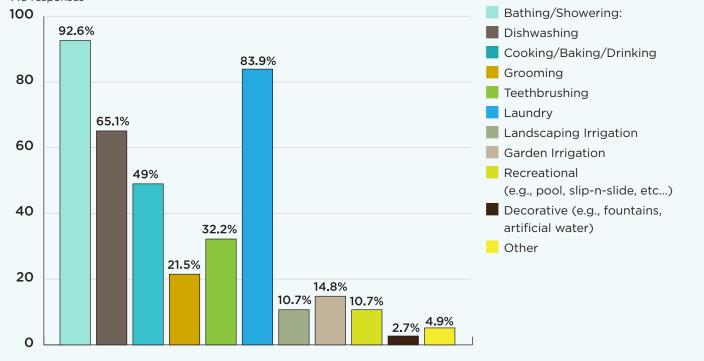
Do you use any of the following water conservation practices at home?* 147 responses

- Restrict general use during drought conditions
- Install WaterSense or low flow faucets, showerheads, or toilets
- Take shorter showers
- Shower/bathe less frequently
- Reduce irrigation
- Reduce recreational use (e.g., pools, slip-n-slides, etc.)
- Reduce decorative use (e.g., fountains, artificial fish ponds, artificial waterfalls, etc.)
- Use rainwater storage (e.g., rain barrels, cisterns, etc.)
- Physical buffers, including vegetation, to retain/detain water
- I don't intentionally conserve water
- Other



What activities use the most water at your home?*

149 responses

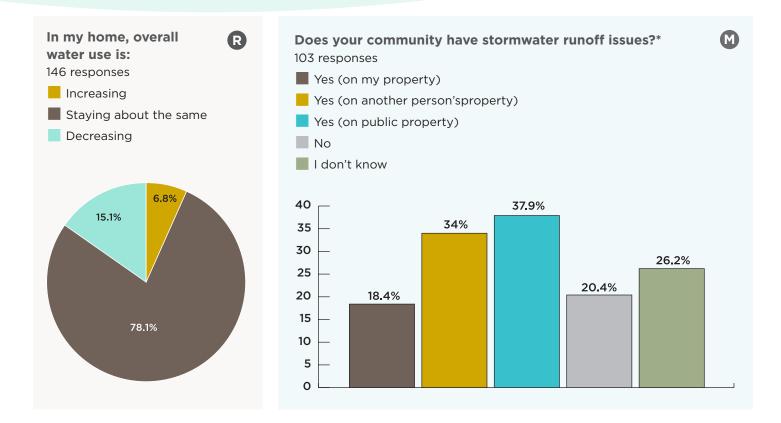


*Respondents could check multiple responses.

B Business Respondent Question All Respondent Question

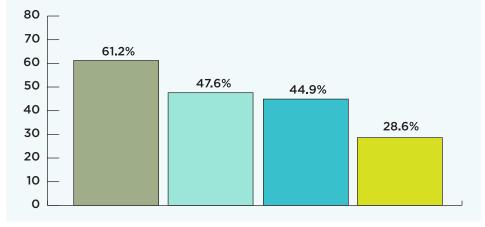
R

R



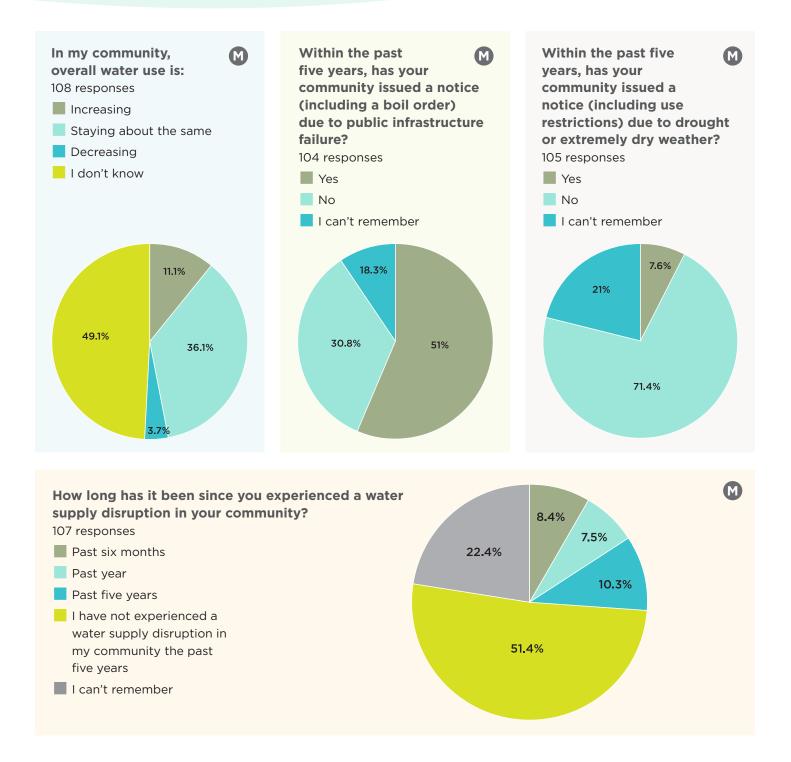
Do you have any concern about any of the following water supply contaminants?* 147 responses

- Chemical contaminants (nitrates, etc.)
- Elemental contaminants (arsenic, barium, lead, radium, etc.)
- Biological contaminants (E. coli, legionella, cryptosporidium, etc.)
- I don't have any concerns about water supply contaminants

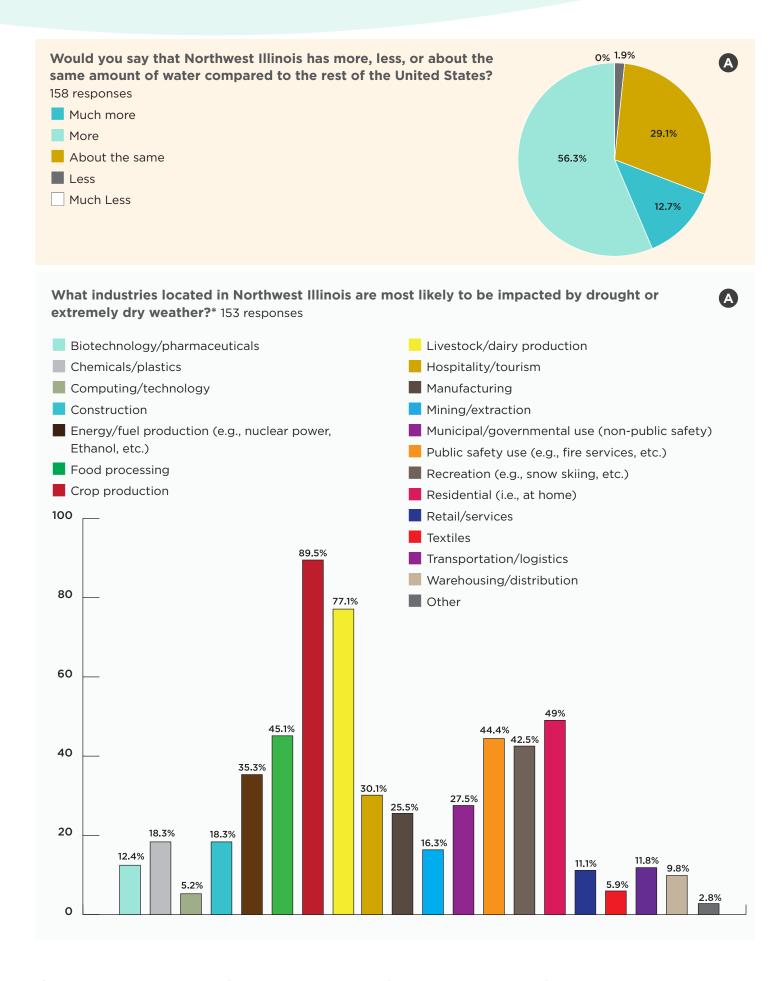


B Business Respondent Question A All Respondent Question

M

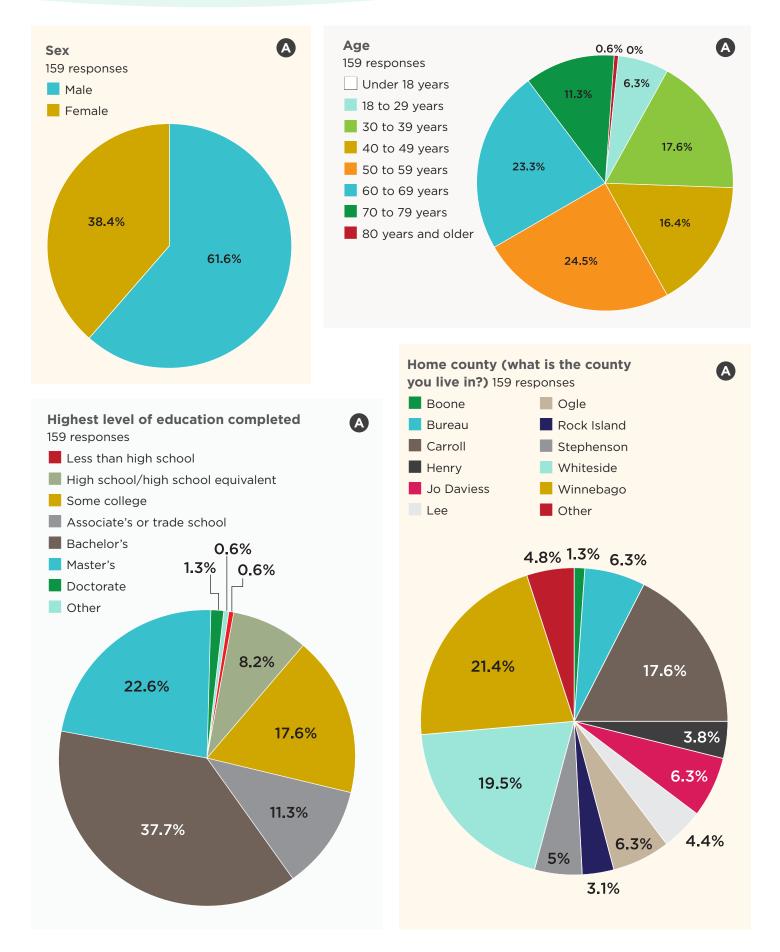


B Business Respondent Question All Respondent Question



B Business Respondent Question A All Respondent Question

Question **R** Illinois Resident Question



What is my primary industry? (e.g., food processing, manufacturing, energy production, etc.) 56 responses

agriculture (2)	Drinking Water Utility
Education (2)	Social services
Municipal Government (2)	Golf/hospitality
Farming (2)	Beef, hay farm
Ag (2)	ag organization
Food	Publicly Managed Conservation Lands
Food growing	professional service
retail	Loan Making
hospitality	Consulting
Behavioral Health	consulting
Beef	professional services
CAMPING	farming
small beef farm	Crop production and water supply
manufacturing	Professional Services:
Health Care	Architecture Firm
Public Health - Local Government	govt
Poultry farm	Engineering
Processing Wastewater	Farming/Water Well Contractor
Farm and small business	Farming irrigation
Art and art classes	Municipal well water &
food processing	wastewater
Village Water Treatment	Well Drilling - Water Testing
office work	Consulting Engineering
Tourism	Crops and cattle
Livestock	———— Fertilizer Mfg
 Tree farm	Mining
Farm Equip Sales and service	

B

What are the most important uses of water at my farm or business? (including specific industrial or other processes) 46 responses

Irrigation (4)	Washing Equipment, Water supply for employees personel use
Watering produce	
agricultural spraying	Treat and Deliver Potable Water
office and appliance repair	Safe to drink
Laundry, cleaning, cooking and drinking water	Personal and livestock water use
Drinking	drinking
livestock needs	 Drinking water, irrigation of gardens, public education programs, public recreational uses - fishing, canoeing kayaking, etc
For drinking	
personal use and for my cattle	domestic uses
Hygiene and landscaping	Drinking
Bathroom and kitchen	Domestic Use
Water for the birds and humans	potable water use
Processing wastewater	drinking water
Geothermal Heatpumps	Home, Farm shop, water for shop
Consumption	Office use only.
Cleaning and Hydration	Domestic use
to water plants	Irrigation, livestock
Household use	Drinking water
coffee, toilets, hand washing.	Growing crops
Plumbing, drinking	Lab procedures, well drilling
Livestock water	Watering cattle
Grow trees	Cooling water, boiler feed water, and process water
	Low usage - grain production - no irrigation

Please include any general comments here.

I do not have any concerns for my office but I am on a sand-point at home and I am always concerned about runoff and the water table.

Storm water and waste water leaks, intermingling

The Boone County Conservation District manages most of its land holdings as important conservation lands for ecological functions and values. Our properties contribute significantly toward groundwater recharge and effective use of habitat restoration - re-establishing native plant communities, to reduce surface water runoff and facilitate infiltration of water on a landscape scale of management.

B Business Respondent Question A All Respondent Question

B

What water supply issues does your community currently have? 63 responses

None (10)	It stinks (odor) without filtration. We have 350 parts
Aging infrastructure (2)	per million.
Superfund sites, lead in water	Flushes of red iron like material in water
Adding floride to the water.	not supply but old water treatment facility and flooding because of poor drainage systems
unsure	Radium in water supply
Backed-up sewers from quick snow melt/rain	Old pipes need replacement but too expensive for community
we have a new water tower but height limits where new devolpment can be.	
unaware of any	High nitrate concentrations in surface and ground waters.
none that I know of	Frequent watermain breaks
Live at a lake resort. Low lake level would be	I'm on a public well
only water issue.	none that i am aware of
Contamination	possible well issues and undersized mains
Low water pressure for some.	Old supply pipes leads to water line breaks and
Supposidly cross contamination	disruptions.
Filtering	Surface H2O Mississippi River, microbiological, algal
wells	During the summer, the Rock River below the Lower Dam gets very shallow.
Unsure	
storm runoff flooding, reduced supply of aquifer	radium
ground water, reduced aquifer recharge	Cost of maintaining a system in good working condition with decreasing demand.
Aged Infrastructure	
Lead and agricultural run off/ nitrates.	No
High chemical content	Combined radium
Major flooding on all neighborhood streets. more than 8 to 15" deep. standing water or storm water regurgitation	Old infrastructure.
	Limited public distribution in the community.
from street grates due to system overwhelm and age We are in a contaminated zone	Water plant is from 1882, with 12 miles of main from the 1800's. There is also a lot of Spuncast main, which is
100 year old system, leaks	failing greatly.
none	Radium in water - now building a filtration system.
Aging underground infrastructure	Aging distribution and storage system. Very hard water.
Creeks and streams are cloudy with sediments after rains. There ditches are constantly filled with soil and there sediments from construction or road work. Don't know.	Water pressure and rust/sediment flushing in lines.
	Age and condition of infrastructure.
	Old infrastructure
	Aging water distribution

M

Where are these water supply issues happening? 51 responses

N/A (3)	Don't know.
City wide (2)	Edgewater Neighborhood, 61103
City of Freeport (2)	through incoming lines unpredictable
Southeast Rockford	Our Public Water Supply delivers an average of 3.5
At the well.	million gallons per day. Our fixed capacity is 16 million
unsure	gallons per day
l don't know	many different areas in town
north end of town	No where in particular but the city is older
People furthest away from the water tower.	Wells
Sterling il	Pecatonica
City	Rural sand point wells are severely contaminated.
don't know	Scattered throughout the community
Unsure	na
in urbanized areas along the Rock River in Rockford,	Water main breaks
subdivisions along the Kishwaukee River, reduced aqui- fer levels throughout Winnebago County	within the community's water distribution system
	In the older sections of town.
At home, at school, at my business.	Source
In tower	The Upper Dam restricts the flow so the level north of
southwest of Rockton and Halsted 61101	the Dam stays up for recreational use.
not applicable	naturally occurring in aquifer
water distribution lines	Industrial areas and residential as well.
Watermain that is in excess of 50 years old	No
We previously had a problem with our wells, which has been taken care of now.	Dixon-North well
	Water mains to small and old.
Off of HWY 92 in Andalusia - there is an area up the hill that has been being worked on (cutting down trees, etc.) I am not sure what they are doing up on the hill, but there is always run off from the site that is not be mitigated and ends up in the ditch. There is also little to no mitigation on the ditches in town near the ballpark.	Aquifer
	System wide
	No funding
	Broken pipes



Why do you think these water supply issues are happening? 47 responses

N/A (4) Don't know. don't know (2) No accountability Past dumping of toxic chemicals no requirements for proper run off were in place when many construction projects took place Politicians have sold out the public at large. See above answer unsure Changes in water tables I don't know Agricultural practices. Low rainfall Aged and aging distribution system; I don't know Aging infrastructure I don't know. age of infrastructure Sewer and water infastructure Old infrastructure. Unsure Agriculture Water is being pumped and flushed into sanitary sewer faster than aquifers can recharge. Non-permeable sur-People upstream of the Upper Dam like to use their faces reduce recharge and retention. Loss of wetlands boats, also a certain level has to be maintained for the has reduced recharge and filtration capacity. hydroelectric generator to supply electricity. Old lines naturally occurring Run off, hard water, brown fields/Superfund sites in Economic changing conditions. Rockford, minerals and elements in the ground water, Naturally occurring in environment but can be harmful traffic pollution. to people. Old system Funding. age of infrastructure. water losses that go unchecked The lack of oversight by previous officials, as well as (broken pipes and pipe breaks) that contribute to the the hesitancy to spend the funds to repair and replace amount of water in the system, which can go unchecked aging infrastructure. if it happens prior to a meter I am told radium is a natural occurring substance - it has not applicable moved into our area was not here 5 yrs ago. old system, cold weather Transition to split water system Aging infrastructure, thaw / freeze cycles Failure of past responsible parties to look to the future and plan for infrastructure replacement. Wells and pumps are old. I don't know. I would assume there are best manage-Was not a priority in the past & other funding priorities ment practices in place and EPA regulations that the are higher currently. village of Andalusia has to follow.

Old age

B Business Respondent Question A All Respondent Question

What measures would you like your community to take regarding water use?

46 responses

Transparency with possible tainted water

Stop fluoridation.

unsure

Cost comparison of implementing techniques to lower water usage

continued testing

Better filtering systems and water management.

Let everyone had good water pressure and good water.

Clean it up

Doing what they need to be

Water filtration plant

don't know

Education to the public

Reduce non-permeable surfaces. Establish green space along river corridors to protect wetland recharge areas. Large scale capture and re-use of gray water.

Replace lines as affordable

We should encourage people to conserve at home, not to dump things like paint and motor oil into storm drains, not to waster their lawns by planting clover among their grass.

They are trying to resolve

refrain from disposing of chemicals or oil into the system. being safer about things left in yards or disposed of on lots that contaminate our water. being aware of the toxic waste left by previous generations and addressing those. finishing the epa studies of the super fund site in South Rockford, and cleaning up the Kent creek contamination as well as heavy metal contamination in industrial or former industrial areas.

have clean water

fix their old system

Our town has already addressed these issues by contracting with a well services company.

Better filtration

Increased irrigation restrictions. Promotion of non-traditional lawn and landscapes.

None

Encourage the use of rain barrels, host community meetings on the benefits of practices like planting native plants, mowing and watering less, using less pesticides and herbicides on lawns, etc. Help facilitate water monitoring programs on the local creeks and streams.

More water conservation.

I filter water myself and don't believe any governing agency that says it's OK.

Investment in reinforcing and expanding the current system

We are pursuing the building of a HMO water treatment facility

Allow use of grey water in landscaping, install rain barrels,

Better education for rural homeowners who are still operating on a sand point well, to increase awareness and inform residents of possible solutions.

Planned watermain distribution system upgrades/replacement

Proactively replace aged water mains. Maintenance on water tower and well.

just to ensure the adequate water supply and good quality

Acquire grants to replace old infrastructure.

Reduce runoff

Make sure our water supply isn't contaminated.

Conserve groundwater, manage run-off

pipeline to river (say, via Galesburg)

Charge enough to keep system in good operating condition within rate payers ability to absorb some.

I would like to see education on the use of rain water.

I would like them to learn and consider their own water usage.

Replace

The village is doing what is required of us by the IEPA & US EPA

Abandon old wells not to code!

Conservation and increase system improvement

Invest more in it



If you have experienced any kind of water supply shortage in Northwest Illinois, please describe briefly what happened. 30 responses

N/A (8)

None (4)

No (3)

Concern with contamination of underground aquifer from agricultural land and livestock waste practices.

n/a

Had to replace sandpoint with well because needed to go deeper was told sandpoints were drying up

My Sandpoint depth dropped 5 ft and it was harder to get my water.

restricted lawn watering

Boone County has a good recharge rate however, our rivers have developed a slow decline in depth due to the cone of depression around Joliet, IL. This concerns us greatly.

Filtration problems needed repairs and caused disruption

After a large storm, tornado, etc., a city-wide "boil water" order was in force for a few days.

2012 Drought - farmers suffered

minor - 2012 drought

Used to live in a country subdivision w/ water from a community well, and during drought periods they banned sprinkling and watering lawns.

No.

Only on crops

No shortages - just asking consumer to conserve.

None - we use bedrock water not surface.

Any other comments about water supply, anticipated needs, etc.?

None

I am personally worries about contamination of water supply due to farm/farming run off.

Water use and supply will be our #1 future issue.

erosion control along river corridors is needed to protect aquatic habitat abd water quality

The IEPA has declared Boone County's water to be "sensitive to contamination" due to our geology. The IEPA has declared that our counties water supply is to be "highly prioritized" for protection because of this risk.

My biggest concern after groun water quality is the silt load in our waterways causing habitat degradation and more frequent flooding.

I feel that I should be more educated about water supply issues.

Worried about quality & odor

Health water supply is necessary for life

Boone County is interested in additional geologic assessment of consolidated and unconsolidated aquifers, groundwater recharge and flow between aquifers, and baseline data on the current water quality of the various aquifers most depended upon as a potable water supply (both individual wells and municipal wells).

Funding assistance is likely needed for Municipalities in NW IL to be able to replace/repair the needed infrastructure. Water quality is average and improvements to treatment are needed in many areas (Iron, for example; some radium, etc.).

Our community needs to improve old infrastructure but doesn't have funds to do all that is needed.

I oversee the water system.

I don't like the fluoride or chlorine requirements. I know there are other ways to disinfect the water. Too much into on fluoride not all it is cracked up to be! Needs to be researched more! We need to become better stewards of water!