

SAVE OUR STREAMS FROM ROAD SALT



A problem across the world

- An invisible freshwater pollutant salt
 has increased at least 2-4 times in the last 50 years in many places
- Road salt use has more than doubled since the 1970s, and is the main cause of the salt increase in our region
- Road salt dissolves in water and enters streams quickly via runoff from roads and parking lots, and slowly enters into the soil and groundwater
- Even though the problem is getting worse, solutions need to be balanced with safety and economic concerns



Salt is a problem in the Tookany-Tacony/Frankford watershed

- Most TTF streams are contaminated with salt
- Salt levels in local streams are 10-30 times higher than natural levels, even in the summer.
 During winter storms, levels rise to 50-100 times higher than natural (TTF and USGS)



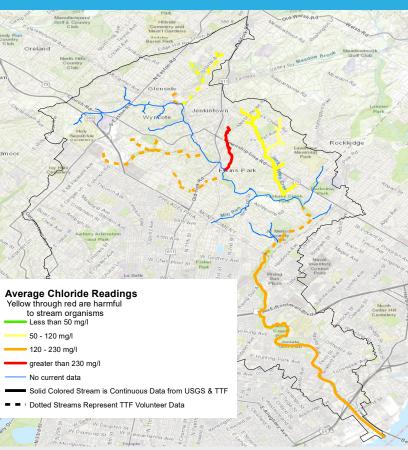
The amount of salt in TTF streams is shocking

11,000+ TONS

of salt applied by humans flow through the watershed every year

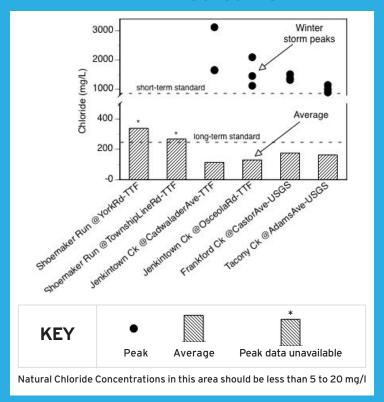
30+ TONS PER DAY

Salt (as chloride) in TTF streams



Map includes all available data from 2018-2021, collected by TTF volunteers with chloride test strips in partnership with the Izaak Walton League, and by continuous sensors maintained by TTF volunteers and the US Geological Survey (Stations # 01467086 and 01467087).

Salt (as chloride) in TTF streams



Why is salt a problem?

- Salt can be harmful to aquatic animals and plants. Some of these streams exceed the federal standard for long-term exposure designed to protect aquatic life most days of the year
- High levels of road salt during winter storms have exceeded the federal standard for short-term exposure designed to protect aquatic life (about 1 tsp of salt per gallon)
- Road salt speeds up rusting of metal and corrosion of concrete. It has been shown to cause millions of dollars in damage to infrastructure and personal property





What can we do to help?

Homeowners and residents

- Shovel First: Shovel before you salt and right after it snows to reduce the need for salt
- Reduce and Reuse: Use just enough salt to melt ice (One 12oz cup of salt per 20ft of driveway or 10 sidewalk squares). After snow melts, sweep up and reuse the salt that remains
- Consider: sand or crushed limestone instead of salt or a 1:1 sand/crushed limestone to road salt mixture
- Read the Label: Don't use products containing urea, kitty litter, or ashes
- Speak Up: Educate your neighbors! If you see an unprotected salt pile or excessive salt use contact your township

Considerations for municipal and private property owners

- Adopt more efficient mechanical snow/ice removal methods such as live edge plows
- Apply pre-storm salt brine to reduce use of rock salt
- Improve efficiency of salt application and storage to reduce waste. Sweep up salt after use
- Adjust brine and salt applications to match snow/ ice expectations and traffic volume







