

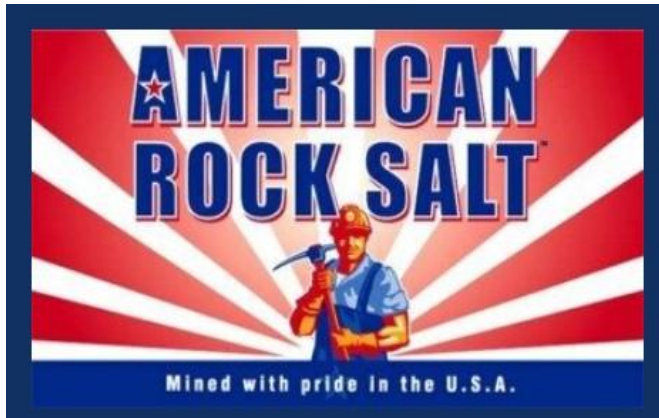


Pros & Cons of Salt for Winter Maintenance

Very effective at melting snow & ice (lowers freeze point of water).

Familiar & trusted by American public and those responsible for public safety.

Abundant & *Cheap* (Is Salt Cheap ??).



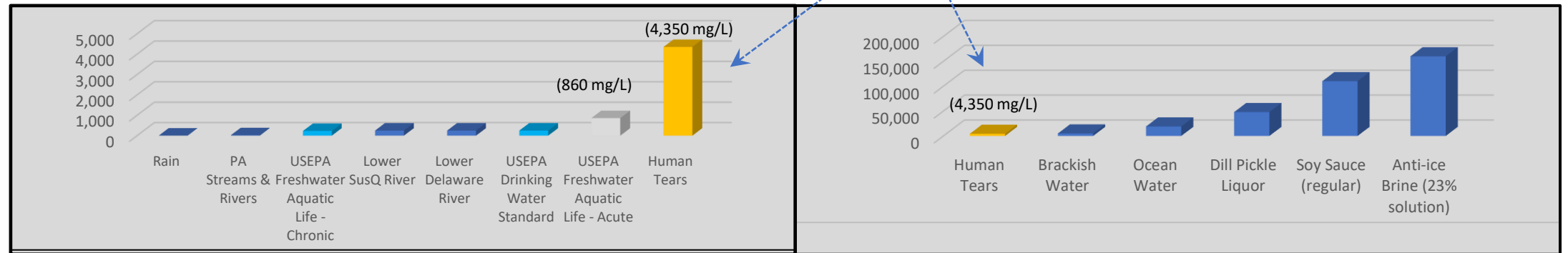
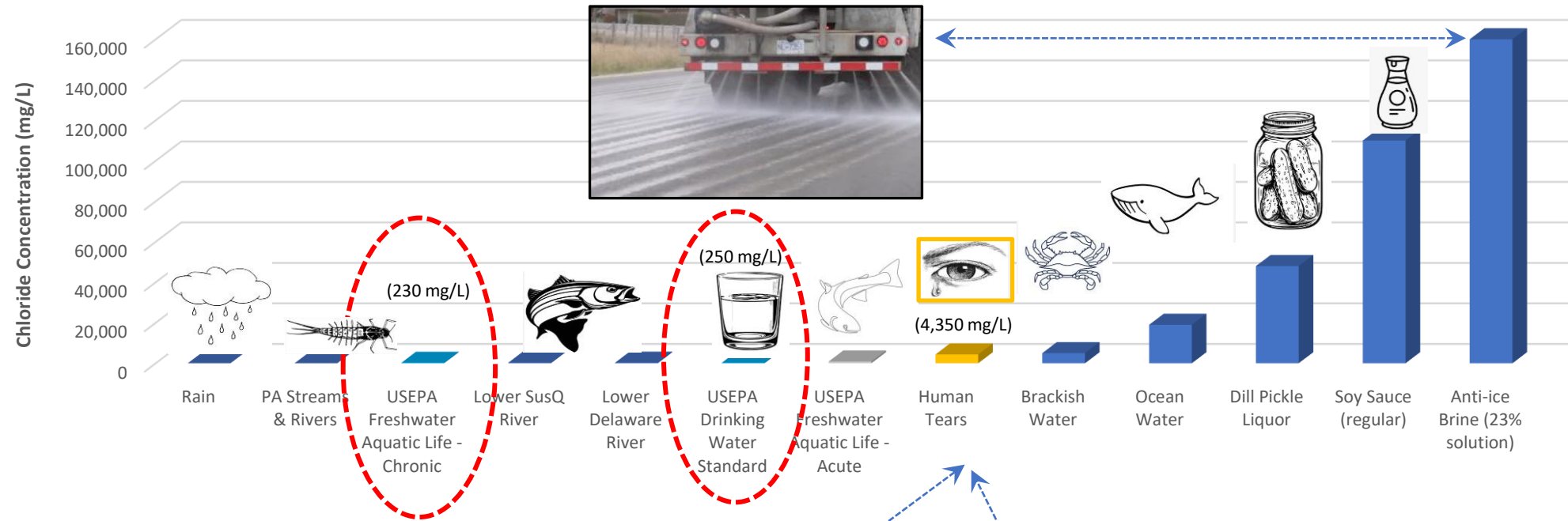
Corrosive to metals, asphalt, concrete, wood, and paints/coatings.

Excessive intake can heighten risk for heart attack, stroke, and kidney disease.

Disrupts the balanced flow of electrolytes across cell membranes, which interferes with nerve signaling, causes dehydration, and damages cells & tissues.

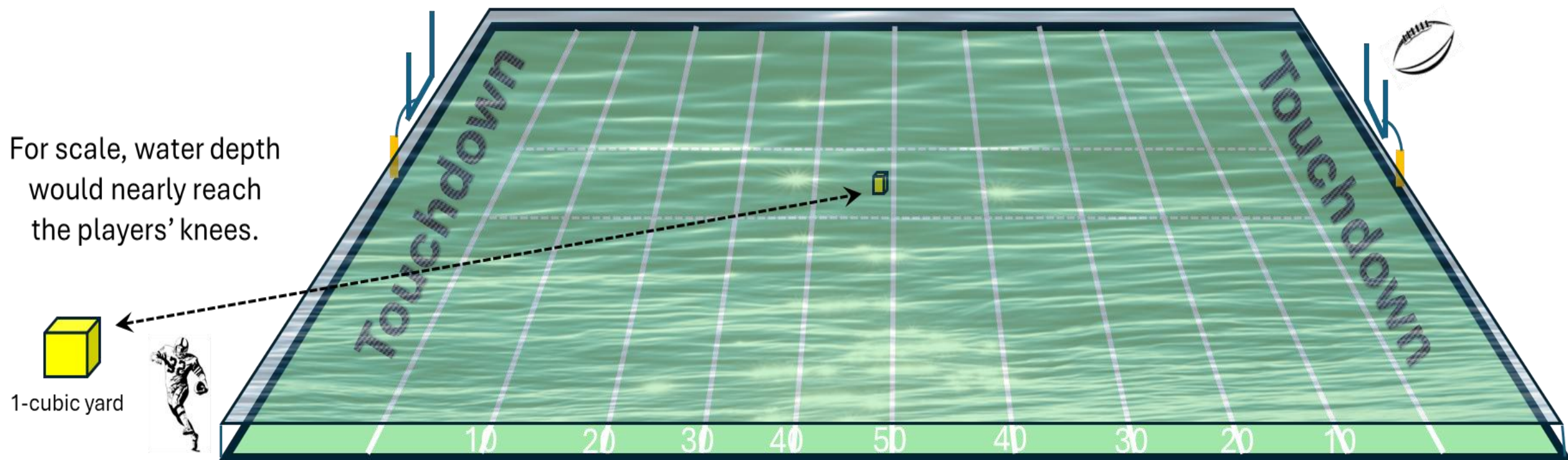


Chloride Levels in Various Substances






During the 2024-'25 Winter Season, PennDOT* used roughly 600,000 tons of Salt to maintain about 96,000 lane miles (40,000 road miles & 25,400 bridges).

2024-'25 Overall Winter Average ~6.25 tons Salt/lane mile.



*Source | <https://www.pa.gov/agencies/penndot/traveling-in-pa/winter/winter-facts>

Use Only What You Need & Use it Efficiently

De-icing Salt Rock Salt Halite Sodium Chloride NaCl	50 lb bag 	1 ton (1 cubic yard) sack 	bulk storage 
Market Price (excludes delivery)	\$350/pallet (50 bags); \$7 to \$15/bag (retail)	\$165/ super sack	\$75/ ton (or cubic yard)
\$/pound	\$0.14 (pallet) to \$0.30/lb (retail)	\$0.08/lb	\$0.04/lb
<u>Target User</u>	<u>Resident; small business</u>	<u>Organization/Contractor</u>	<u>Government DPW/DOT</u>
• Uses	* Sidewalk, driveway	* Parking areas, walkways	* Public roads, highways, bridges
Recommended application rate (lb/ft ²)	0.03 to 0.05 lb/ft ² ½ cup per square yard (9 ft ²); 50 lbs per 1,000 to 1,600 ft ²	0.0008 to 0.003 lb/ft ² 0.75 to 3 lb/1,000 ft ² , depending on conditions	0.0016 to 0.008 lb/ft ² 100 to 500 lb/lane mile (12 ft x 5,280 ft = 63,360 ft ²)

Welcome Pennsylvania Road Salt Action (PARSA) Working Group

- ❖ Mary Rooney and Jennifer Latzgo Co-Founded PARSA in January 2025
- ❖ Mary is the Founder and President of the Little Lehigh Watershed Stewards; Jennifer is Director of Education and Engagement
- ❖ Little Lehigh Creek is a Drinking Water source for Allentown, PA