



SAVING OUR PRECIOUS U.S. WATER RESOURCES

Over 650 million gallons of water per day are contaminated with chlorides from the regeneration of water softeners.

Santa Clarita, CA estimates that it costs about \$ 0.12 per lb. of chlorides used for regenerating a water softener and \$ 5.20 per pound to remove the chloride from the water.

FACTS

- 1) The U.S. uses about **325,000,000,000 gallons** per day of potable water. U.S. Dept. of Interior. Bureau of Mines Circular 1993.
- 2) Water softeners use between 50 and 100 gallons per regeneration. Water Conditioning & Purification, Dec 2005, PF Online – Ion Exchange Primer
- 3) Water softeners use 7 – 10 lbs. of salt per cubic foot of exchange resin per regeneration. Water Conditioning & Purification, Dec 2005
- 4) Residential water softeners waste about 7,000 gallons per year from regeneration. www.ecy.wa.gov/programs/wq/wtp/water_treat_fs.pdf
- 5) There are about 124,582,886 housing units in the U.S. in 2005 with a growth rate of 1.48% over the prior 5 years. U.S. Census Bureau
- 6) Water softeners are used in about 25 to 30% of the U.S. housing units, which calculates to be between 31,145,721 and 37,374,865 houses.
- 7) Softener use has led to increased salt concentrations (sodium and potassium chloride) in recycled water from municipal wastewater. On-Site Regenerative Water Softeners Use in California Workshop July 8, 2005
- 8) In recycled water, about 37% of the salt contamination was from residential and industrial water softener brine. Innovative Approaches to Salt Reduction by Tom Kouretas
- 9) Only 6 to 15% of homes built prior to 1997 reported using water softeners, while 51 to 61% of home built after 1997 reported using water softeners. Santa Clarita Joint Sewerage System Chloride Source Report Oct, 2002