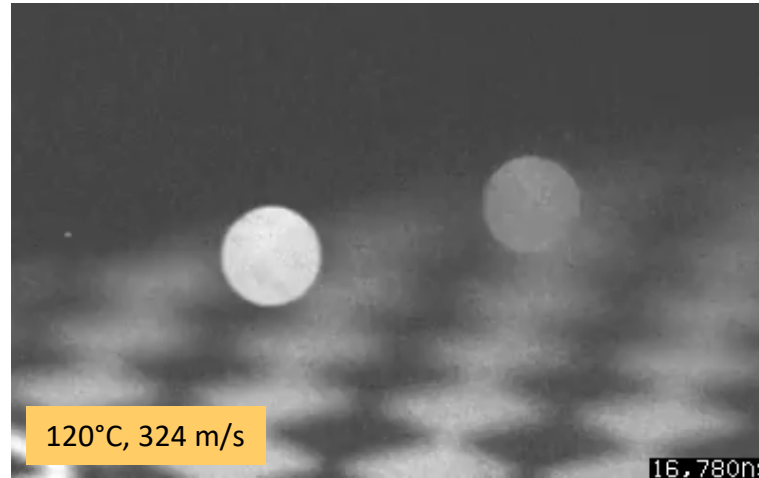




Photo courtesy of Tristan Bacha & Elias Timmons



Near T_m



Photo courtesy of Lily Pfeifer

Re-Igniting South Jersey Glass: New Opportunities in Glass Manufacturing & Recycling

Joe Stanzione (Founding Director)

Advanced Materials & Manufacturing Institute (AMMI)

The Future of Glass Recycling

October 6, 2026





“Glass is a 5000-year-old material of the future.” – Paul Stankard



<https://www.tomsguide.com/phones/android-vs-iphone>

- Roughly 50 to 70 grams of glass in a smartphone
- Accounts for ~ 32% of total weight

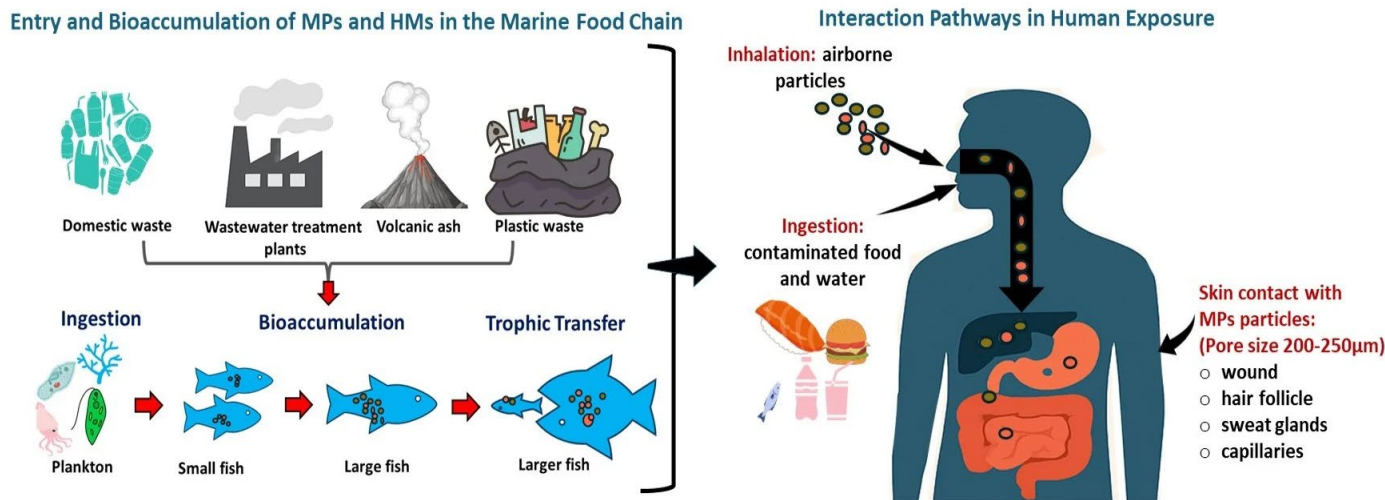


<https://www.consumerreports.org/electronics-computers/smartwatch/is-a-smartwatch-right-for-you-a6919451870/>

- Roughly 2 to 5 grams of glass in a smartwatch
- Accounts for ~ 10% of total weight (excluding strap)



Marine Bioaccumulation and Human Exposure Pathways



<https://www.mdpi.com/2673-8929/4/3/38>

- Humans ingest ~ 5 grams of microplastics (MPs) weekly
- Studies suggest, humans could accumulate over 20 kg (44 lbs.) of plastic in a lifetime
- Human brain samples contained roughly a “plastic spoon’s worth” (~ 7 grams of MPs)



GLASS AT A GLANCE

GLASS IS 100% RECYCLABLE

GLASS CAN BE RECYCLED ENDLESSLY

RECYCLING GLASS USES

70% LESS ENERGY THAN RAW MATERIALS

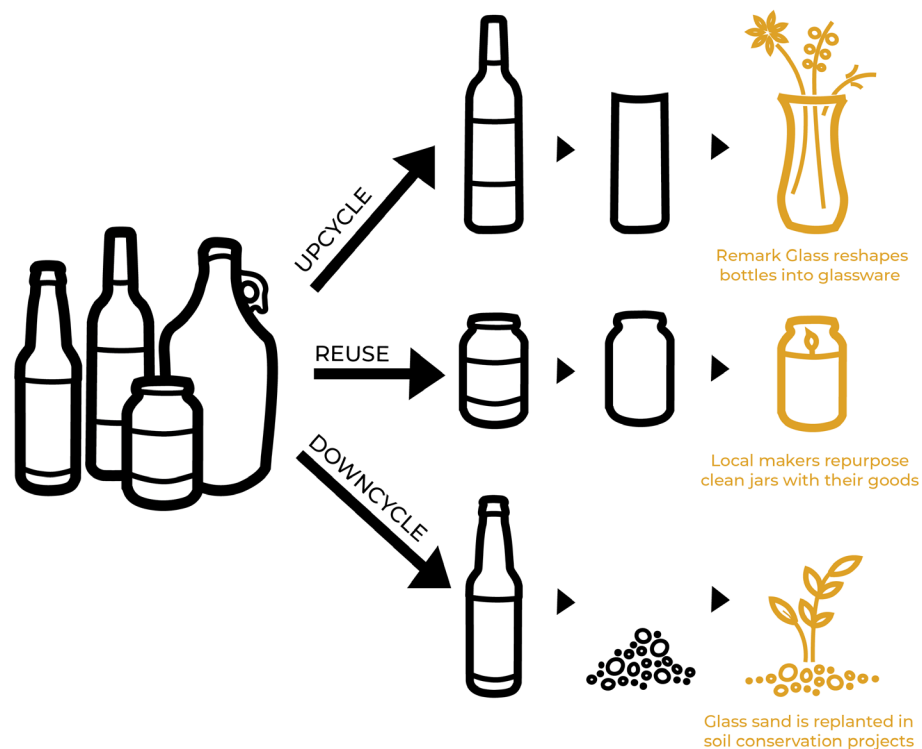
IN A LANDFILL, GLASS TAKES 1 MILLION YEARS TO DEGRADE

A GLASS BOTTLE CAN GO FROM RECYCLING BIN TO STORE SHELF IN 30 DAYS

<https://prc.org/blog/riverside-park-permanent-glass-recycling-station-opens-march-17/>



<https://www.bottleunderground.org/>



Danielle Ruttenberg & Rebecca Davies





Eric Tanzosh & Sam Sotelo-Flores





Glassboro Square



Sand Dunes



Terrariums



Justin Elko



Lily Pfeifer



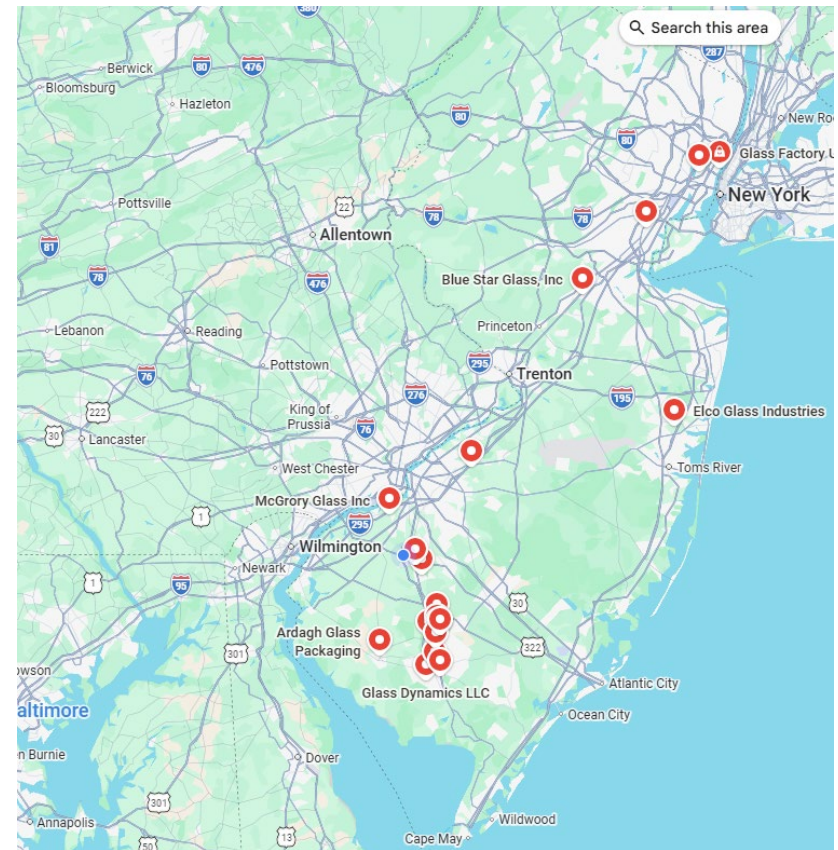
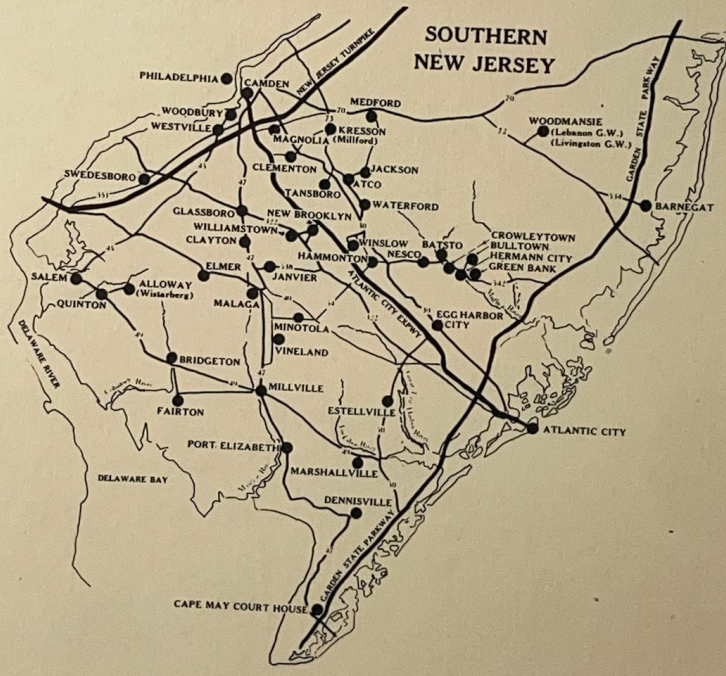
Jen Kitson

Donna Sweigart

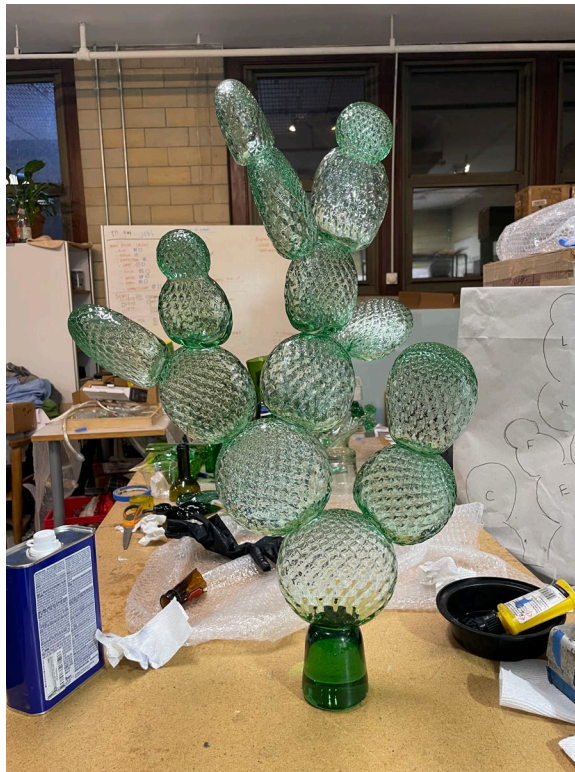


NJ Glass Manufacturers

Glass Making Towns of South Jersey



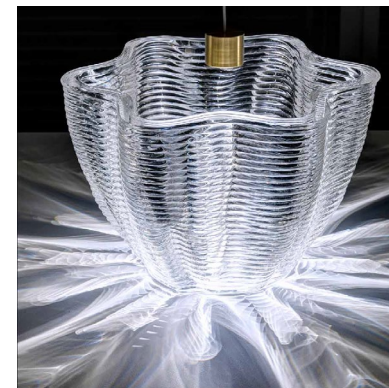
- Caspar Wistar established Wistarburg Glass Works in 1739
- Solomon Stanger purchased 200 acres to create a “glass works in the woods” in 1779
- In 1838, Thomas Whitney purchased Harmony Glassworks and renamed it Whitney Brothers Glassworks
- Dr. Theodore Weaton founded Wheaton Industries in 1888 in Millville



Created by Rebecca Davies



Glass Benchy by Maple Glass Printing



<https://www.oxman.com/projects/glass-i>



Intel Unveils Industry-Leading Glass Substrates to Meet Demand for More Powerful Compute

SEPTEMBER 18, 2023 Published

Artificial Intelligence

Significance of Solar Glass in Solar Panels



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by Craig Bettenhausen, Fionna Samuels, and Jeremy Barr, special to C&EN

April 3, 2026 • 21 min read

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- <https://newsroom.intel.com/artificial-intelligence/intel-unveils-industry-leading-glass-substrates>
- <https://vishakharenewables.com/blog/solar-glass-in-solar-panels/>
- <https://cen.acs.org/materials/Uncovered-Turning-nuclear-waste-glass/104/web/2026/04#:~:text=Fionna:%20So%20there's%20a%20few,because%20crystals%20can%20damage%20cells>

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