



Recycling Glass

Robinson Secondary School - Fairfax, Virginia
Robinson Aced



INTRODUCTION

Glass is notorious for being hard to recycle as they are considered a contaminant. They lower the value of other recyclables which makes the whole recycling process slow down and becomes less efficient. It also takes less energy to create glass using recycled materials which reduces carbon emissions.

Glass Container Recycling Loop

Glass bottles and jars are 100% and infinitely recyclable



This is a standard principal for across the United States, however Fairfax County VA doesn't have the luxury of curbside bins so instead we have "Purple Bins"

*A material recovery facility is a specialized plant that receives, separates and prepares recyclable materials for manufacturers.

Environmental benefits

Recycling Glass correctly has proven environmental benefits:

- Recycling glass requires less energy compared to producing new glass, leading to reduced carbon emissions and energy consumption
- Reduced demand for raw materials means less extraction and disruption of natural habitats where these materials are sourced
- Recycling glass bottles reduces air pollution by 20%. When recycling, it fixes related water pollution by 50%. This happens because jars or bottles recycled won't end up in landfills or bins that will end up sitting there



HOW RECYCLING GLASS CAN HELP EARTH



Reduced Air Pollution



The glass production process can release pollutants into the air, and recycling helps minimize these emissions promotion cleaner air quality

Water Reduction



Glass that is recycled doesn't end up in incinerators or landfills, reducing the overall volume of waste and its associated environmental impacts



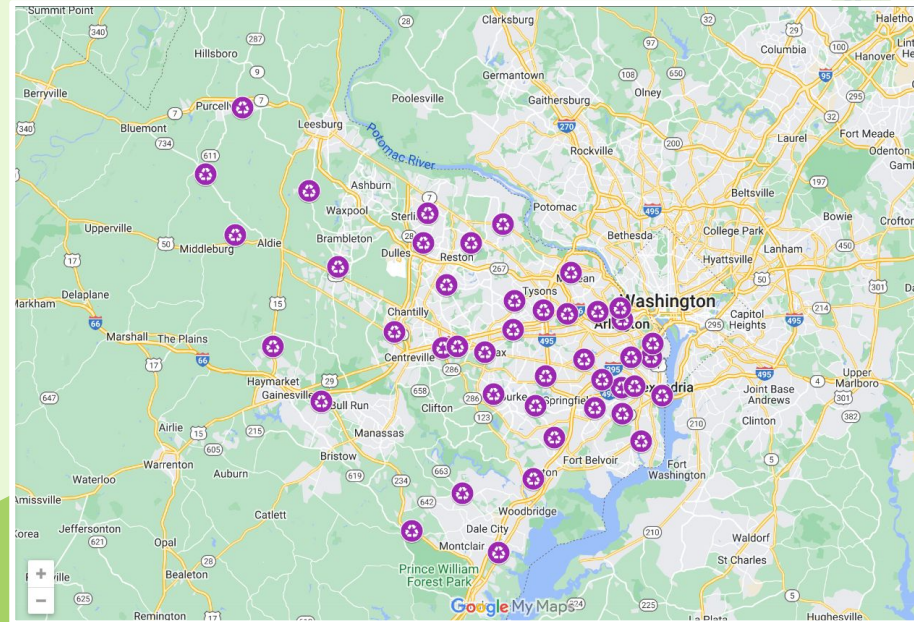
Recycling Drop off

Virginia has purple bins located all across the state, in Northern Virginia specifically there are over 40 purple bins where you can drop off your glass that will then be taken and recycled. Purple bins allow families and individuals to recycle glass without contaminating the rest of single stream recyclables.

Here's one of our team members, DK, actively contributing to our glass drive



Here are some of the drop off locations in Northern Virginia





Our purpose

We started the community service project to bring awareness to glass recycling since it isn't as notable in our area, Fairfax Virginia. We started this project with research on why it's important to recycling glass properly, and then we gave a presentation to our FBLA Chapter to bring awareness to benefit the environment, then we collected glass through a glass drive and dropped it off at our community purple bin. Currently, we are seeking to place two more Purple Bins in Northern Virginia, one at our School, Robinson Secondary School, and another at Clifton Elementary School.





THANK YOU!

References

- <https://www.gpi.org/glass-recycling-facts>
- https://wwf.panda.org/discover/knowledge_hub/teacher_resources/project_ideas/recycling_glass/#:~:text=Recycling%20glass%20is%20one%20of,a%20significant%20part%20of%20it.
- <https://www.fairfaxcounty.gov/publicworks/recycling-trash/glass>

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