

TOXICS REDUCTION PROGRAM

2021 Annual Report Overview

HOW WE ACHIEVE OUR MISSION

The Toxics Reduction Program helps businesses generate less dangerous waste and even save money. We help by:



Finding ways to reduce the use of toxic chemicals.



Increasing efficiency in the manufacturing process.



Focusing on safer alternatives and green chemistry.



Improving worker safety.

OUR SERVICES

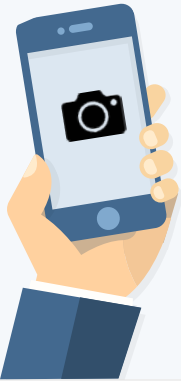
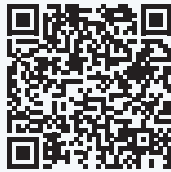
Our team of engineers, chemists, toxicologists, and environmental specialists want to help. We provide **non-regulatory, confidential, and free** technical assistance.

We identify opportunities and implement projects in the following areas:

- Toxic chemicals used in production processes.
- Toxic chemicals in products.
- Toxic Release Inventory chemical emissions.
- Dangerous waste generated.
- Other measurable environmental impacts (e.g., energy use, water use/quality, solid waste generation).

WANT TO READ THE **FULL REPORT?**

Open the camera app on
your phone to scan this
QR code.



OUR **IMPACT**

Toxics Reduction staff help businesses develop their pollution prevention plans. This year,* businesses that prepared plans reported saving **\$3.2 million** in costs thanks to things like:



Recycling.



Reduction in energy and water use.



Decreased need for waste disposal
and transportation services.



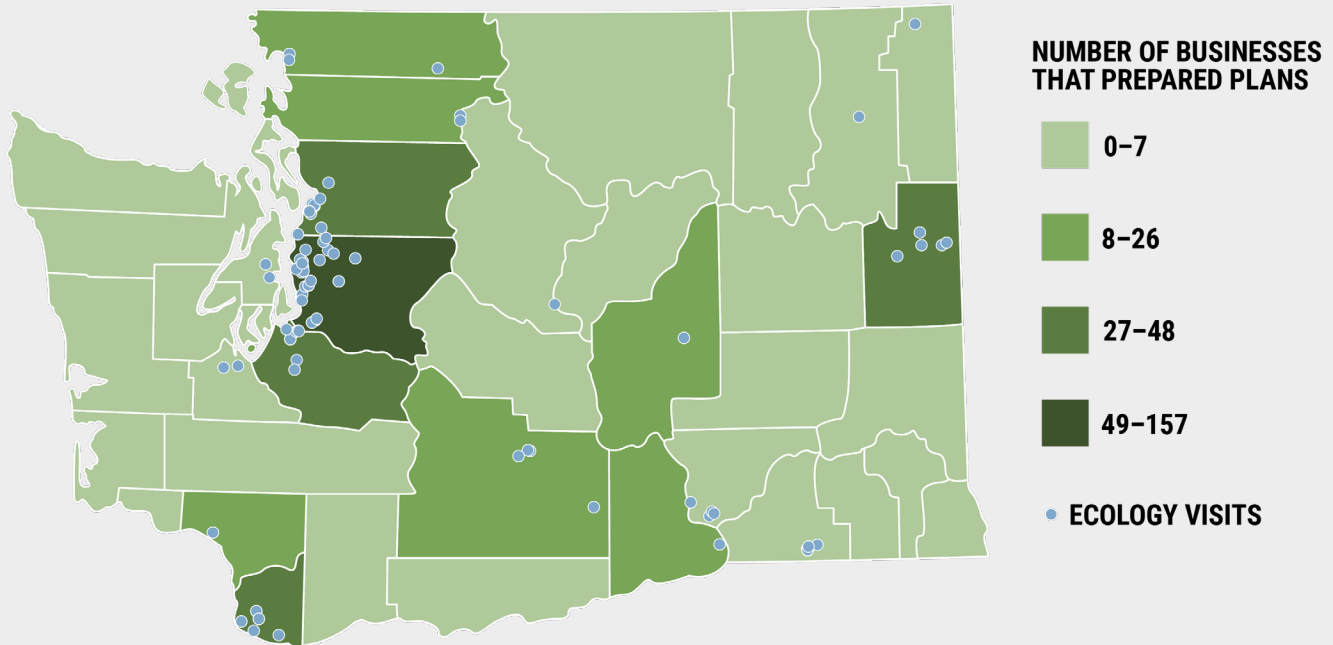
Equipment upgrades.

* Numbers reflect reductions and savings achieved in 2020 that were reported by Washington state businesses in 2021.

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TOXICS REDUCTION VISITS IN 2021



OUR TECHNICAL ASSISTANCE IN 2021

Despite business closures and physical distancing requirements resulting from the COVID-19 pandemic, Toxics Reduction staff continued to make significant strides in reducing waste and preventing pollution. In the past year, our staff:



Engaged with **439 businesses**.



Visited **57 facilities**.



Identified opportunities for improvement during **38 visits**.



Implemented projects during **15 visits**.



TOXIC REDUCTION PROJECTS

Last year, we completed 11 projects that:



Reduced dangerous waste by
103,272 LBS.



Eliminated toxic chemical use by
27,829 LBS.



Helped businesses save
\$659,000.

PROJECT HIGHLIGHTS

PRODUCTION PLATING INC.

- Reduced wastewater generation by an estimated **90–95% (20,000 gallons per day)** after installing a wastewater reuse system that uses ion exchange recycling technology.
- Reduced annual dangerous waste generation by **160,000 pounds**.
- Annual cost savings of **\$490,000**.
- Qualification for a certification to diversify client base and remain competitive.



FOOD AND BEVERAGE MANUFACTURING PROJECT

- Conducted technical assistance visits at **10 food and beverage facilities** and identified improvement opportunities at half of those facilities.
- Provided improvement recommendations that would lead to significant reduction in:
 - Toxic chemical use.
 - Water use (**up to 60,000 gallons per day**).
 - Refrigerant leaks in cooling systems (**\$50,000**).



SOLVENT REDUCTION AT ELECTRONIC MANUFACTURERS

- Helped two businesses lower their risk for exposure by eliminating methylene chloride use at both businesses.
- Removed **3,800 pounds** of solvent dangerous waste and saved an estimated **\$15,000** in waste disposal by purchasing a solvent recycler.

