



NC Recycling and Circular Economy

2022 ESI Conference

October 25, 2022



NC DEQ - DEACS - RMMS

Division of Environmental Assistance & Customer Service
Recycling and Materials Management Section

Non-regulatory

Local governments assistance

Recycling market development

Grants

Statewide data, reports, studies

Conferences, workshops & events



Why Recycle?

LINEAR ECONOMY MODEL

When we
consume

EXTRACT



DISTRIBUTE



DISPOSE

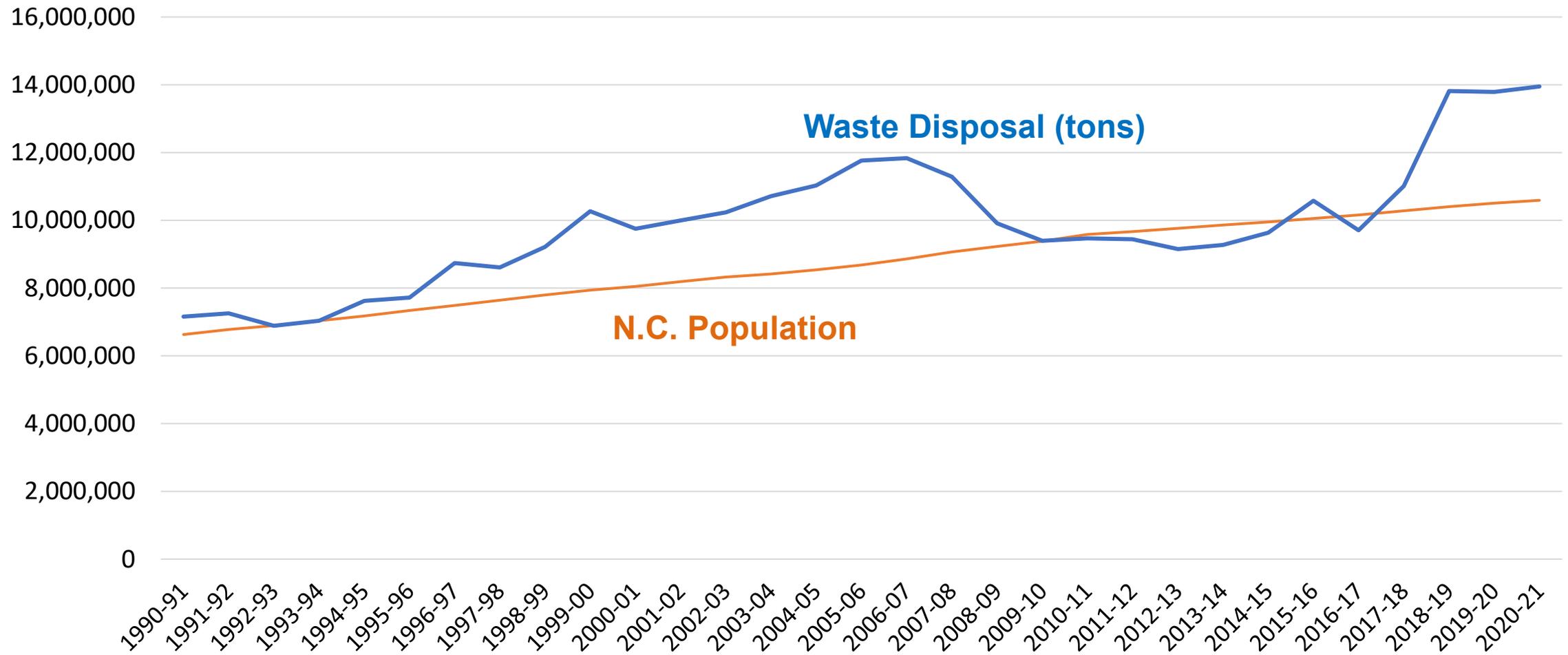


MANUFACTURE

CONSUME



N.C. Municipal Solid Waste Landfill Disposal



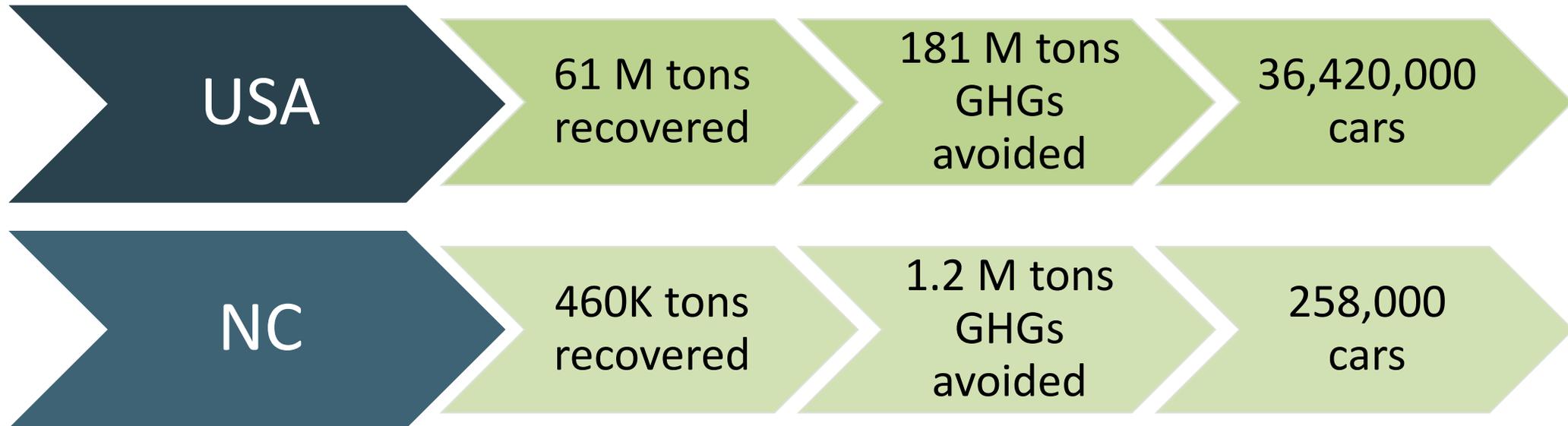
NC DEQ Division of Waste Management

Circular Economy

- Conserves landfill space
- Creates jobs
- Conserves natural resources
- Avoids pollution and habitat loss from natural resource extraction
- Reduces energy and greenhouse gas emissions from resource extraction



Greenhouse Gas (GHG) Benefits from Recycling



- USA figures from the Environmental Protection Agency (EPA) Advancing Sustainable Materials: Facts and Figures Sheet 2018. Includes all recycled material generated from residential, commercial, and institutional sources.
- FY 2020-21, NC tons only include traditional household materials (glass bottles and jars, plastic containers, metal cans, paper, cartons, and cardboard) recycled from public local government recycling programs.
- Greenhouse gas benefits generated using the EPA's Waste Reduction Model (WARM) tool: <https://www.epa.gov/warm>.



Food Waste in US

- **One-third of the food** produced is never eaten.
- About **54 million tons** of food waste.
- Footprint equivalent:
 - 42 coal-fired power plants
 - Water for 50 million homes
- **Single largest material landfilled**
 - 24% according to EPA
 - Landfills are about 15% of US methane emissions
- **1 in 8 Americans are food insecure.**



14%
of all
Fresh Water Use



4%
of U.S. GHG
Emissions



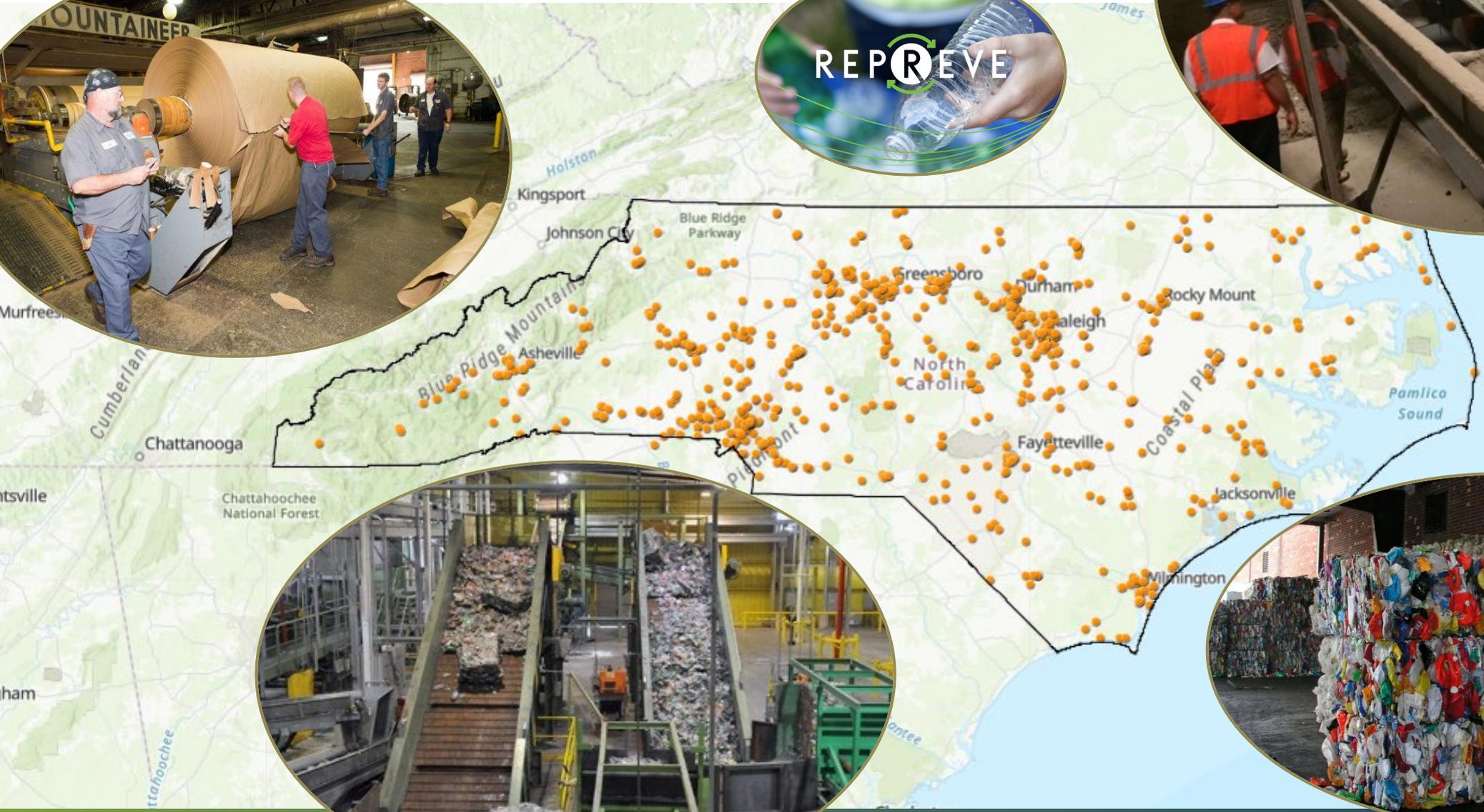
18%
of all
Cropland Use



24%
of Landfill Inputs
#1 material (EPA Estimate)

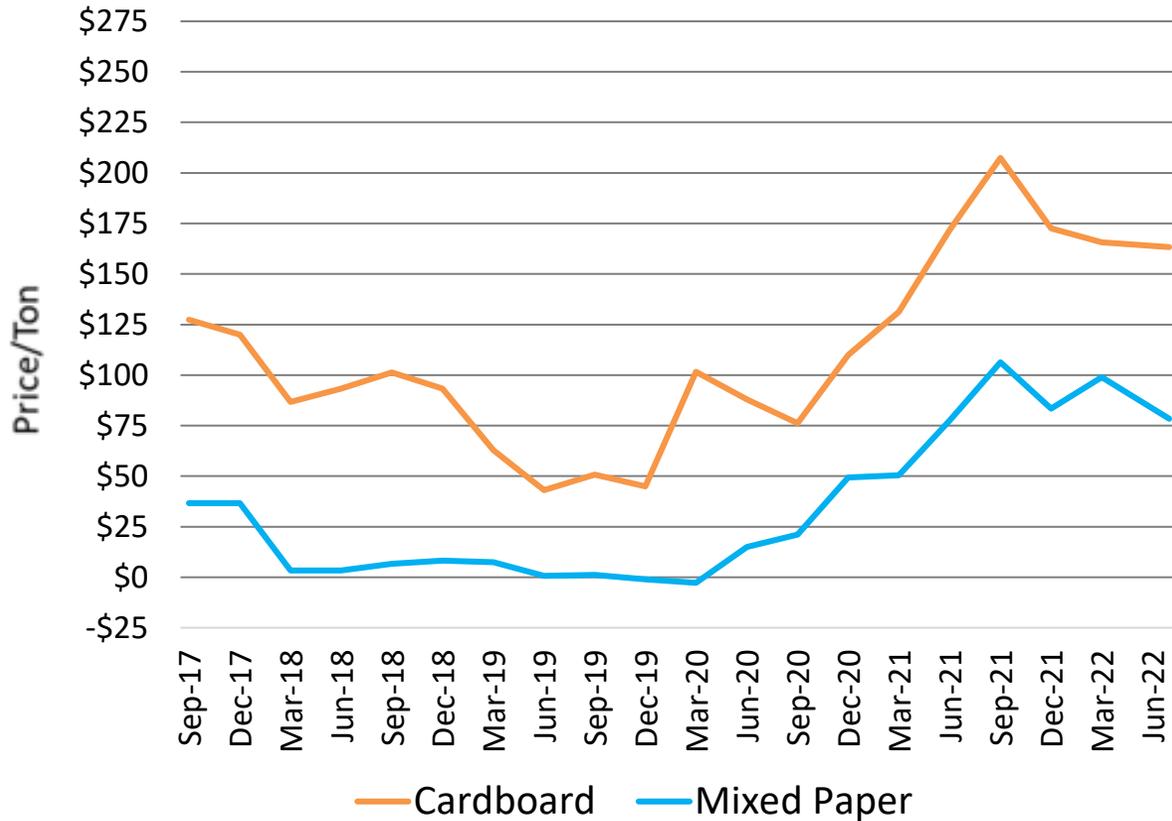
Source: ReFED

N.C. Recycling Businesses

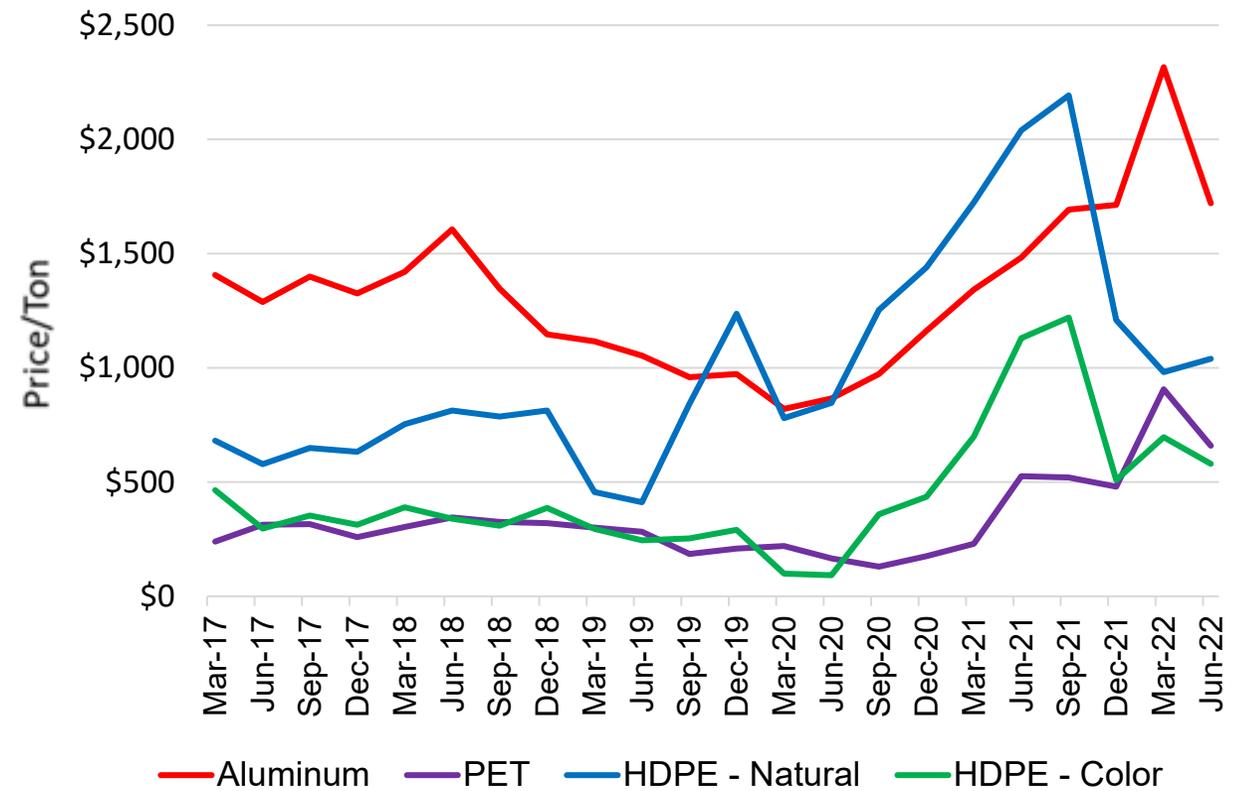


Market Prices

Pricing Trend for Recyclable Fiber



Pricing Trend for Recyclable Containers



Recycling Markets Directory Relaunch



NORTH CAROLINA **RECYCLING** MARKETS DIRECTORY

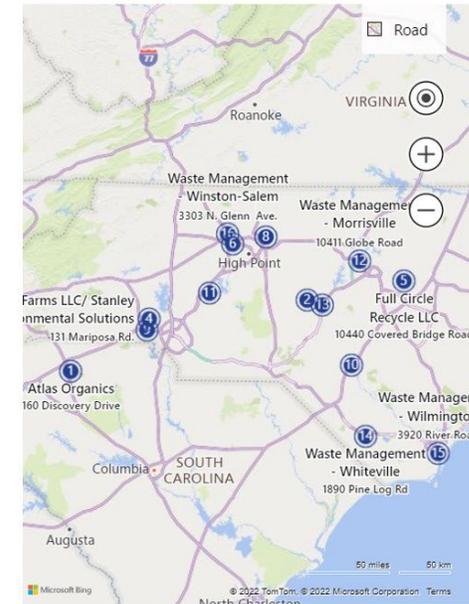
<https://recyclingmarkets.deq.nc.gov/>

North Carolina Recycling Markets Directory

The North Carolina Recycling Markets Directory connects businesses looking to recycle materials they generate with companies who can process those materials. Search the directory by material using the drop-down menus below to find recycling companies near you. Please contact these companies directly to discuss specifications, restrictions and availability to accept recyclable materials.

Food Restaurant Food Waste

Atlas Organics Roebuck SC	<input type="button" value="Details"/> <input type="button" value="Map - 1"/>
Brooks Contractors Goldston NC	<input type="button" value="Details"/> <input type="button" value="Map - 2"/>
CompostNow Raleigh NC	<input type="button" value="Details"/> <input type="button" value="No Lat/Long"/>
Danny's Dumpster Asheville NC	<input type="button" value="Details"/> <input type="button" value="Map - 3"/>
Earth Farms LLC/ Stanley E... Stanley NC	<input type="button" value="Details"/> <input type="button" value="Map - 4"/>
Full Circle Recycle LLC Zebulon NC	<input type="button" value="Details"/> <input type="button" value="Map - 5"/>
Gallins Family Farm Winston-Salem	<input type="button" value="Details"/>



[Download Search Results](#)

Food Waste Campaign

USE THE
F  **od** **INC**
FOOD WASTE STOPS WITH ME

Working Together for a Circular NC Economy

- Expand partnerships and resources to *Use the Food NC*
ESI Members – feedback, case studies, tools & resources needed
- Continue the *Recycle Right NC* effort to reduce contamination and improve the quality of recovered materials
- Expand access to recycling and composting services
- Grow demand
Increase recycled content in product manufacturing
Increase purchasing of recycled content products
- Recruit new and support existing recycling business expansion in NC



Use the Food NC for Businesses



SOME FRUITS ARE FOES

Some fruits give off a gas that cause other fruits to spoil faster. Keep them separated.



USE THE
FoodNC
FOOD WASTE STOPS WITH ME
usethefood.nc.gov

Questions?

Thank you!

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Recycling and Materials Management Section

www.recyclenc.org

