



SOLID WASTE

Construction and Demolition Waste

2024

Agenda

- C&D waste characterization
- Review historic trends and current diversion rates
- Remaining airspace estimates
- Current diversion initiatives
- Next steps



2022 Waste Characterization Study Review

Potential Annual C&D Waste Diversion Quantities

Material	Percent of Waste	Annual Tons
Furniture	18.8%	16,680
Bagged Waste	17.3%	15,370
Clean Lumber	15.1%	13,350
Yard Waste	12.2%	10,770
Painted/Treated Lumber	11.4%	10,080
Ferrous Metals	5.6%	4,950
Cardboard	5.0%	4,420
Window Glass	4.5%	3,950
Dry Wall	3.8%	3,340
Vinyl Siding	3.4%	3,010
Non-Ferrous Metals	1.8%	1,550
Concrete/Brick/Rock	0.9%	830
Shingles	0.3%	300
TOTAL	100%	88,600
TOTAL POTENTIAL DIVERTIBLE	40%	34,000

*Established recycling program in place

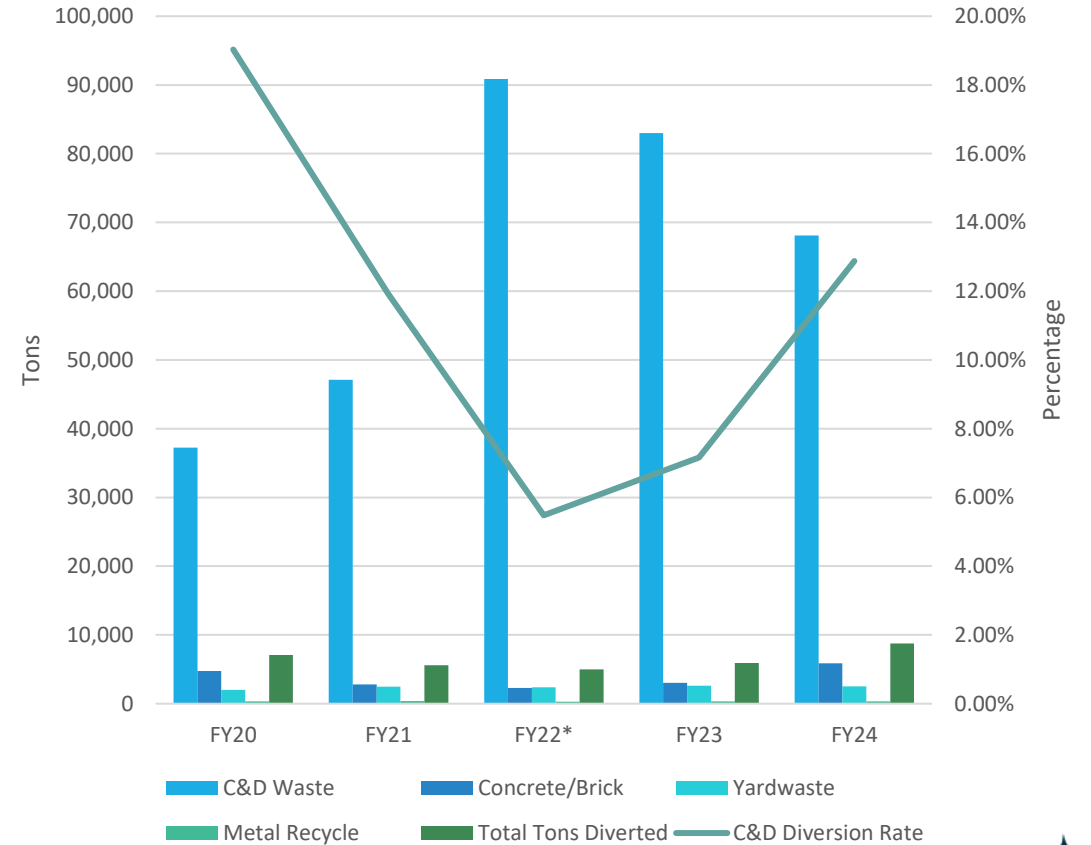
Data from this table was gathered via visual inspection



Diversion Data

Material Type	FY20	FY21	FY22*	FY23	FY24
C&D Waste	37,232	47,121	90,867	83,024	68,100
Concrete/Brick	4,740	2,780	2,300	3,017	5,879
Yard Waste	2,007	2,472	2,369	2,598	2,543
Metal	340	360	308	326	352
Total Tons Diverted	7,087	5,612	4,977	5,941	8,774
Diversion Rate	19.03%	11.91%	5.48%	7.16%	12.88%

**Duke Energy power plant project*



Large Sources of C&D Waste

- Demolition Waste
 - NCDOT's I-26 Connector Project has significant demolition debris associated with that project currently and ongoing for the next several years
- Construction Waste
 - New Construction Projects throughout the County
 - Various multifamily developments
 - Hospital development in Weaverville



Remaining Capacity of C&D Landfill

C&D Remaining life (Phases 1-8)

Annual Increase	Remaining Landfill Life (Years)
0%	5.00
1%	4.90
2%	4.80

- After capacity is reached C&D will be disposed of in MSW landfill
 - Cost per acre of MSW disposal is approximately **double** that of C&D



Current C&D Waste Diversion Initiatives

- Business Recycling Brochure for contractors
- Modified operations for recovery of select materials
- Encourage C&D load delivery to landfill
- Continue supporting the implementation of C&D diversion requirements for County projects
- Promote reduced tipping fee for source-separated materials

EXAMPLES OF LOCATIONS AND MATERIALS RECYCLED

Material	Landfill	Transfer Station	Other Recycling Locations
Commingled Recyclables	✓	✓	Curbside Management
Corrugated Cardboard	✓	✓	Curbside Management
Wood Products Suitable for Mulching/ Yard Waste*	✓	✗	Riverside Stump Dump
Concrete*	✓	✗	
Cinderblock*	✓	✗	
Brick*	✓	✗	
Asphalt*	✓	✗	
Concrete with steel*	✓	✗	
Any type of metal	✓	✓	Biltmore Iron & Metal

*Recycling Fees Apply



Do you have a business in Buncombe County that recycles one or more of these materials? You could be featured in this brochure! Email us at recycling@buncombecounty.org to find out more.

BUNCOMBE COUNTY SOLID WASTE ORDINANCES

Secured Loads
To comply with state regulations and to reduce roadside litter, ensure that all loads are covered/secured before hauling to any facility. Loads in violation will receive a \$25 fine (\$10 residential) at County Facilities.

Mixed Loads
All incoming loads must have recyclables sorted prior to arriving at County facilities. Incoming loads with 5% or greater contamination by weight or volume of the below recyclables will be charged double the base tip fee.

FOR MORE INFORMATION

Email: recycling@buncombecounty.org

Websites:
buncombecounty.org/solidwaste
themulchlady.com
curbie.com
biltmoreiron.com



**PLEASE CALL
(828) 250-5470**



to file complaints of trash and junk accumulation on properties, or to report illegal dumping.



Next Steps

- 1. Hire Solid Waste Inspector to assist with enforcement of Mixed Load/Diversion Ordinance*
- 2. Internally perform pilot sorting project to collect more data on incoming loads*
- 3. Continued collaboration internally with building and demolition permit language*

Data can help guide:

- Work towards developing C&D Diversion plan with contractors
- Benchmark other communities and their policies for C&D waste
 - Catawba County
 - New Hanover
- Reduce daily C&D capacity at the transfer station to encourage load delivery to the landfill
- Consider rejecting large demo project waste
- Consider rejection of loads containing large volumes of brick/concrete
- Evaluate increase tip fee for “undesirable” waste streams
- Consider initiating recycling shed/swap shop for usable C&D materials at landfill
- Continue educational outreach, targeting groups such as Asheville Builders Association

