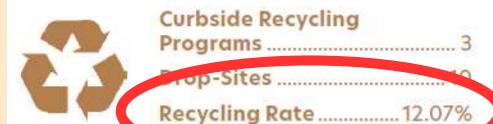


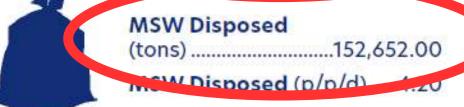
WASTE REDUCTION IS NECESSARY

BEAUFORT COUNTY



Population19	8,979
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(p/p/d) 4.78

TABLE 7.20: Beaufort County MSW Recycling Data in Tons in FY24

COMMODITIES	RESIDENTIAL	COMMERCIAL/ INSTITUTIONAL	(office/ packaging)	TOTAL
Glass	685.71	0.10	0.00	685.81
Metal	112.15	5.67	259.80	377.62
Paper	2,063.91	3,225.67	77.04	5,366.62
Plastic	378.66	0.26	0.00	378.92
Organics	4,881.58	0.00	0.00	4,881.58
Banned	2,241.10	604.15	48.53	2,893.78
Miscellaneous	145.67	328.88	2.91	477.46
Commingled	5,766.09	134.93	0.00	5,901.02
TOTAL	16,274.87	4,299.66	388.28	20,962.81

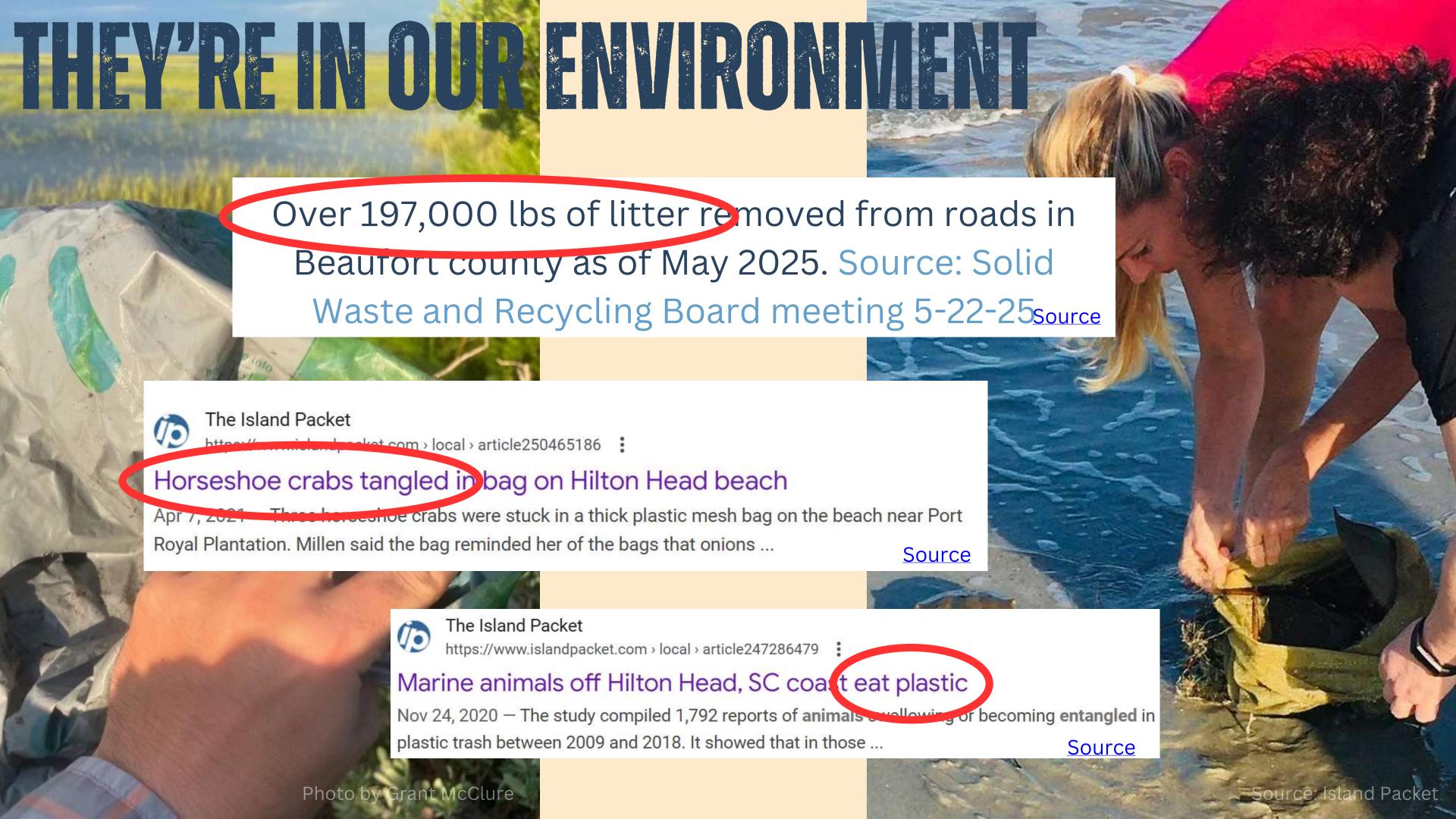
TABLE 7.21: Beaufort County Facilities List for FY24

FACILITY TYPE NO. OF FACILITY TYPE		FACILITY TYPE	NO. OF FACILITIES	
Class 1 Landfills	0	C&D Debris Recyclers	2	
Class 2 Landfills	1	Transfer Stations	4	
Class 3 Landfills	0	Structrual Fills	0	
Waste Tire Facilities	1	Solid Waste Processing Facilities	1	
Used Oil Facilities	0	Composting and Wood Grinding	2	
Incinerators 3		Other Permitted Solid Waste Facilities	0	

Estimated Remaining Life of Landfill

6 yrs

Source



Microplastics and Tire Wear Particles in South Carolina Coastal Waters: Sources, Pathways, and Toxicity

John E. Weinstein^a*

Journal of the South Carolina Academy of Science, [2023], 21(1) ^aDepartment of Biology, The Citadel, Military College of South Carolina, 171 Moultrie St., Charleston, South Carolina 29409, USA

Source

Effects of microplastics and nanoplastics in shrimp: Mechanisms of plastic particle and contaminant distribution and subsequent effects after uptake

Volume 894, 10 October 2023, 164999

Anil Timilsina ^a, Kaushik Adhikari ^b, Amit K. Yadav ^c, Pabitra Joshi ^d, Grace Ramena ^e,

Kailash Bohara ^e ᄎ 🖾

Source

Microplastic Content in Oysters (*Crassostrea virginica*) from South Carolina, USA

Blosser, Brooke Caroline. College of Charleston ProQuest Dissertations Publishing, 2022. 29213218.

Source

Microplastic contamination in fish: A systematic global review of trends, health risks, and implications for consumer safety

Marine Pollution Bulletin Volume 219, October 2025, 118279
Himanshu Jangid a, Joydeep Dutta a, Arun Karnwal b, Gaurav Kumar a c ス ☒️

Source



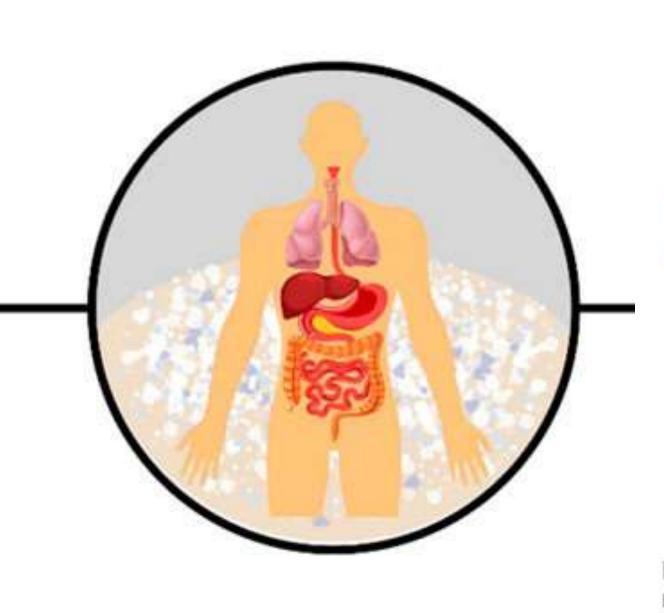
THEY REIN OUR DONES

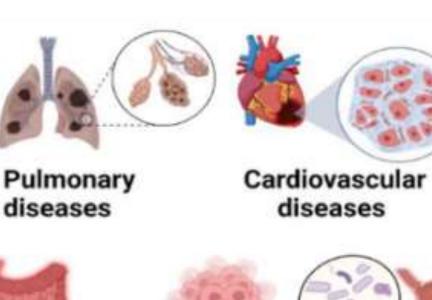
Exposure

MICROPLASTIC

Toxicity









Inflammatory diseases



Cancer



Infectious diseases



Pregnancy and maternal exposure to progeny



Immunotoxicity

Source.



A multi-disciplinary working group developed and deployed surveys

OUGK DEGAP











January 13, 2025 - April 3, 2025



Two Survey Types



Regulatory Preferences



Media & Business Outreach
Campaign



PLASTIC REDUCTION EFFORTS IN BEAUFORT COUNTY

IN 2018, BEAUFORT COUNTY COUNCIL
PASSED AN ORDINANCE THAT WAS
INTENDED TO LIMIT THE NUMBER OF
PLASTIC BAGS THAT END UP IN OUR
FRAGILE ENVIRONMENT. THE COUNTY IS
EVALUATING THE ISSUE AND CONSIDERING
WAYS TO ALLEVIATE THE NEGATIVE
IMPACT ON OUR COMMUNITY.



How can you help?

TAKE A MOMENT TO FILL OUT THIS SURVEY
TO HELP US MAKE AN INFORMED DECISION
FOR THE FUTURE OF BEAUFORT COUNTY,
ITS BUSINESSES AND RESIDENTS.

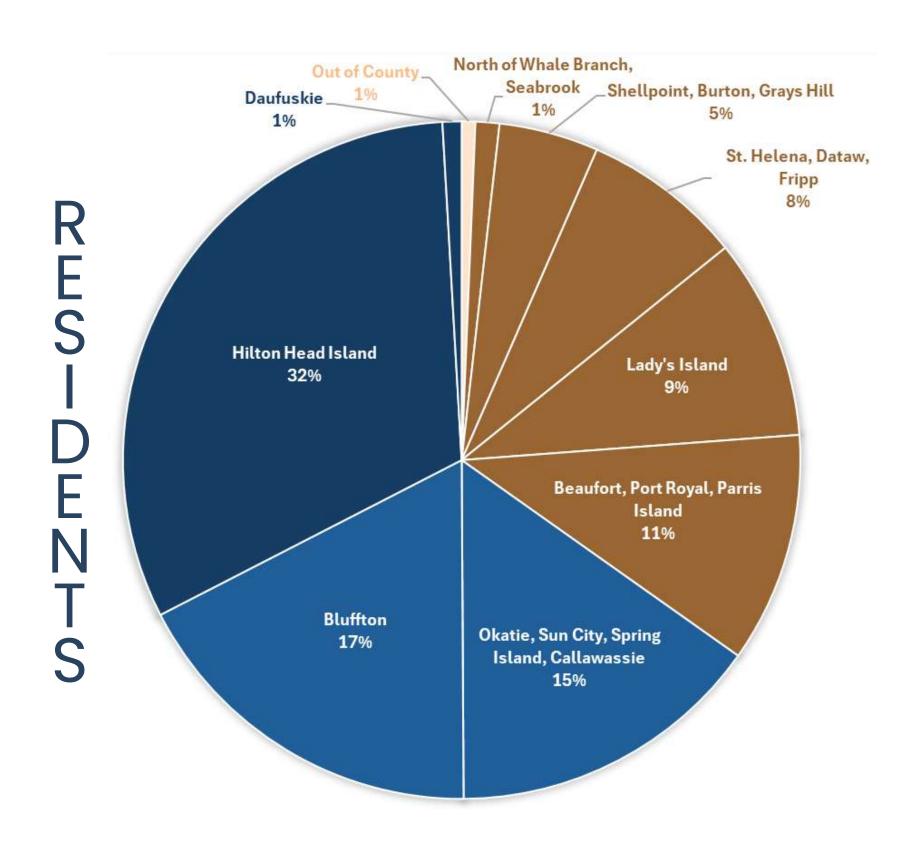




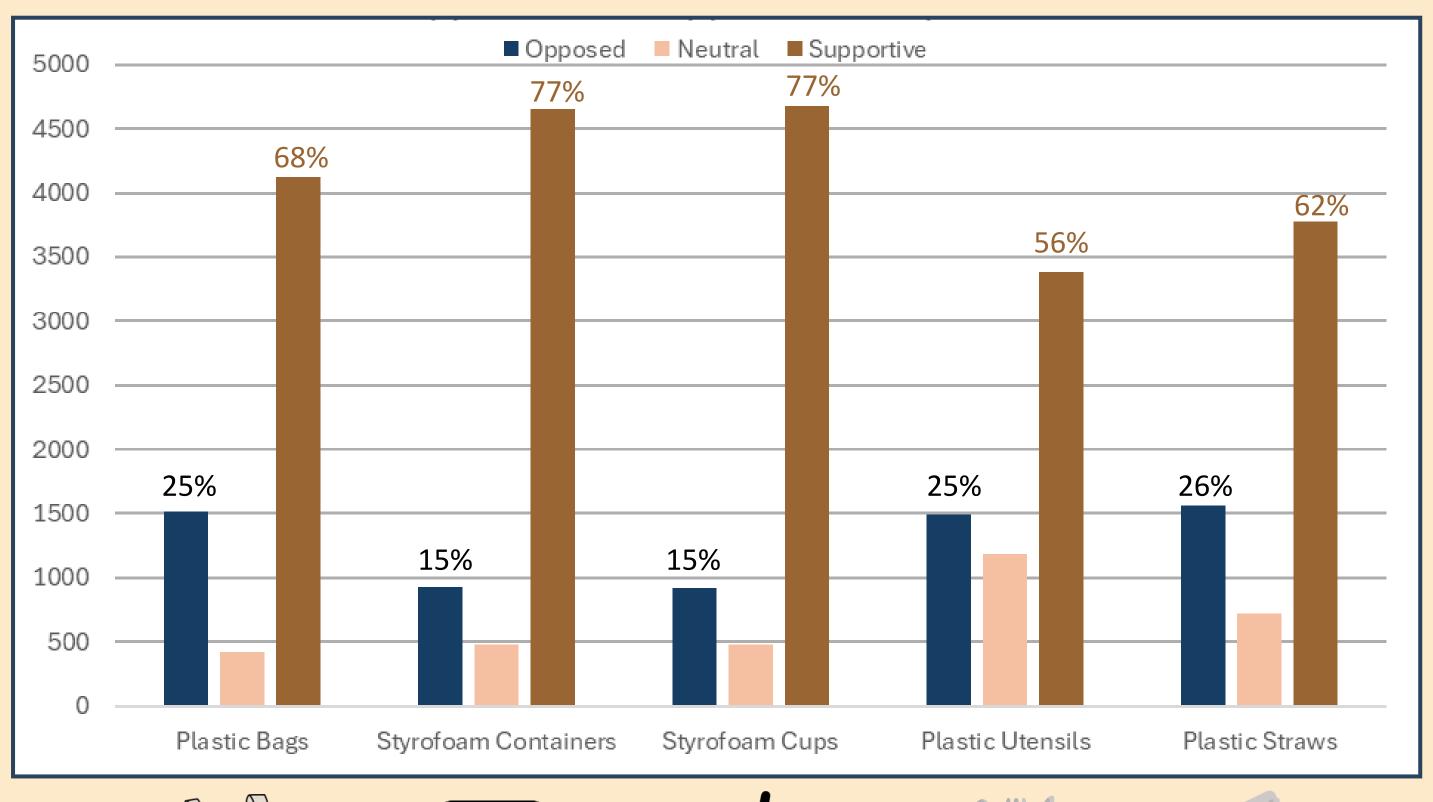
WHO RESPONDED?

North of Whale Branch Out of County **Daufuskie** Burton 1% 5% St. Helena, Dataw 2% Lady's Island Hilton Head Island 30% Beaufort, Port Royal 25% Bluffton 21% Okatie 6%

138 Business Responses 6,062 Resident Responses



RESIDENTS SUPPORT SINGLE-USE PLASTIC REGULATION



"All plastic needs to be tapered down and eventually eliminated as waste.

There are alternative... products that can adequately be used." – Resident Participant



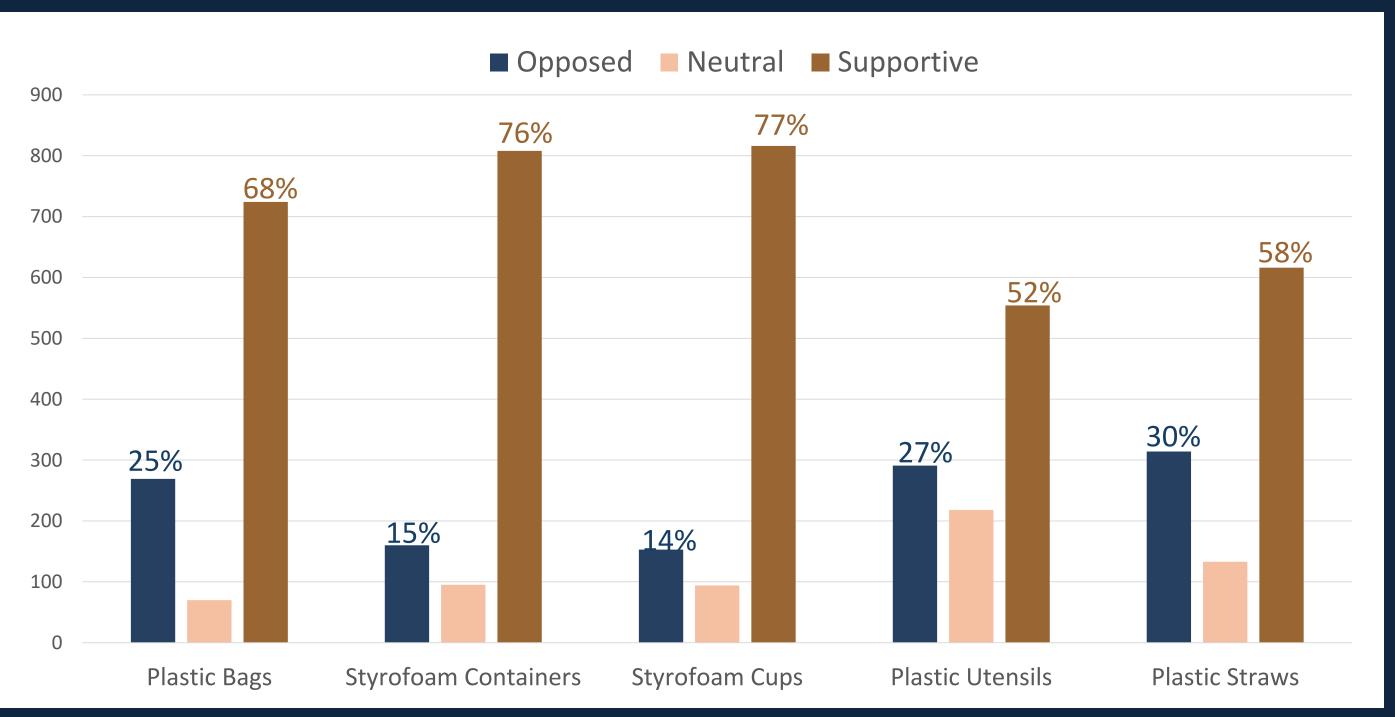
of Response







BLUFFION RESIDENT SUPPORT FOR SINGLE-USE PLASTIC REGULATION



"I live on the may river and am appalled to see plastic and styrofoam in our river and marshes. There are too many other options....change can be painful, but is necessary." – Bluffton Resident Participant



of Responses

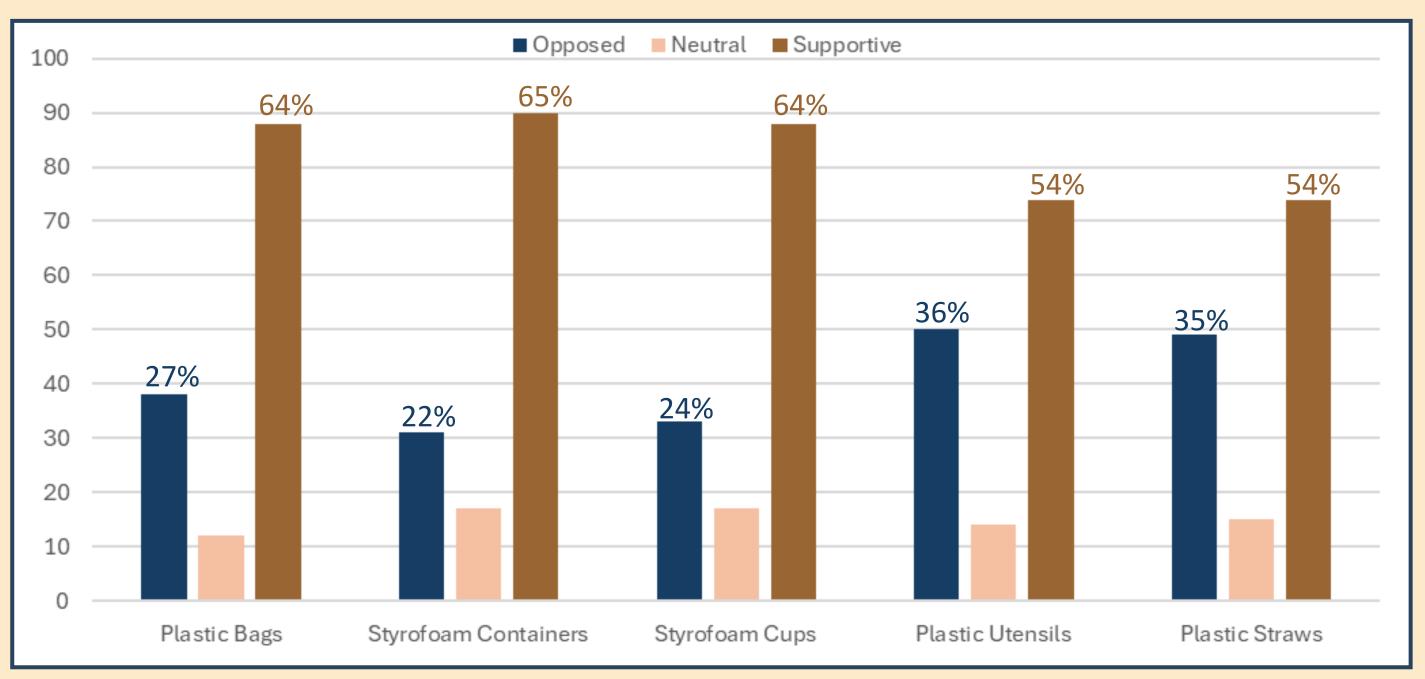








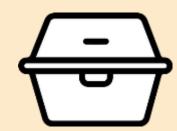
BUSINESSES SUPPORT SINGLE-USE PLASTIC REGULATION



"The fact that
aggressive
recycling and bans
on plastic and
Styrofoam is not in
place is appalling.
We can do better!"
- Business
Participant



of Responses

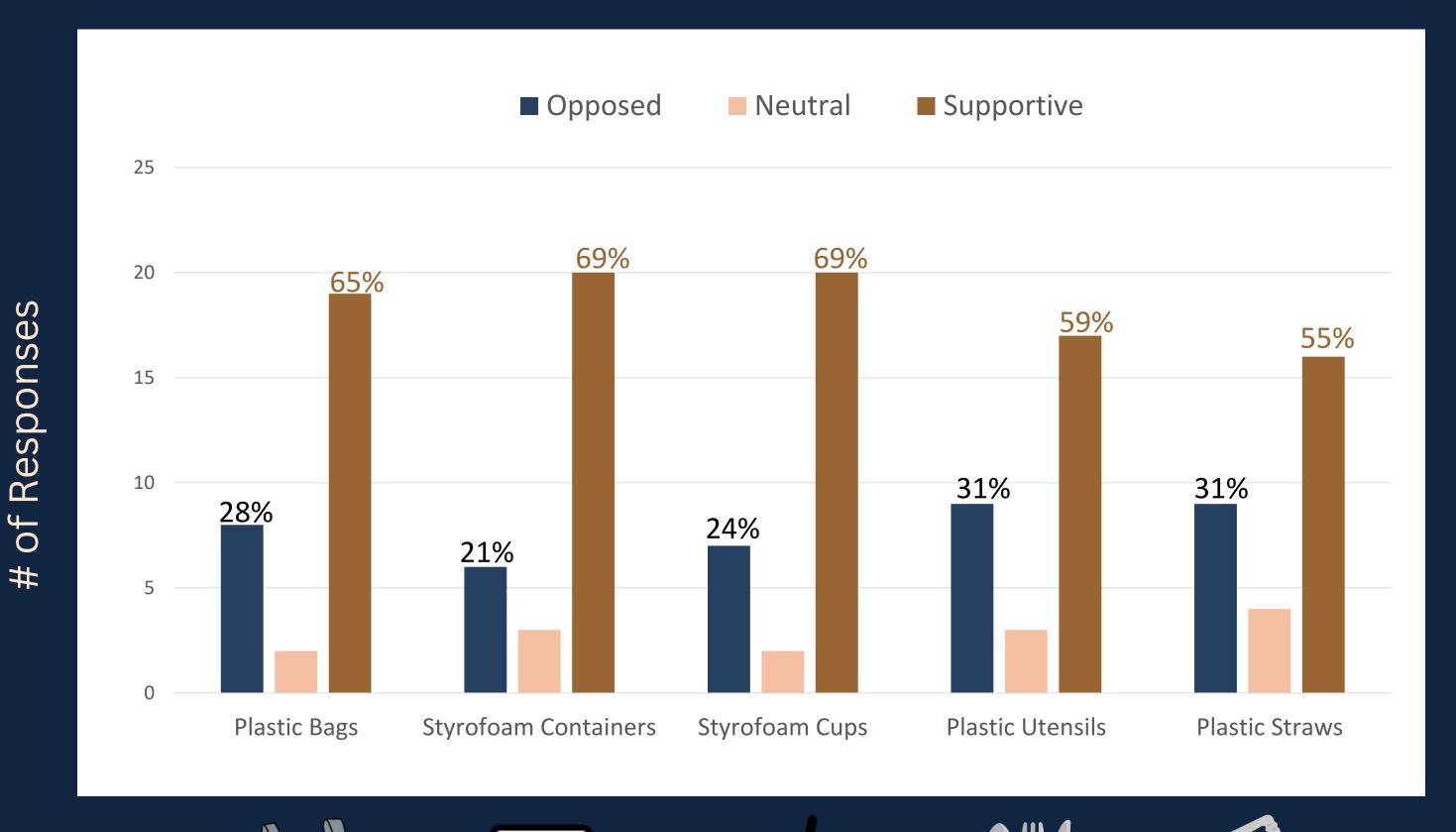








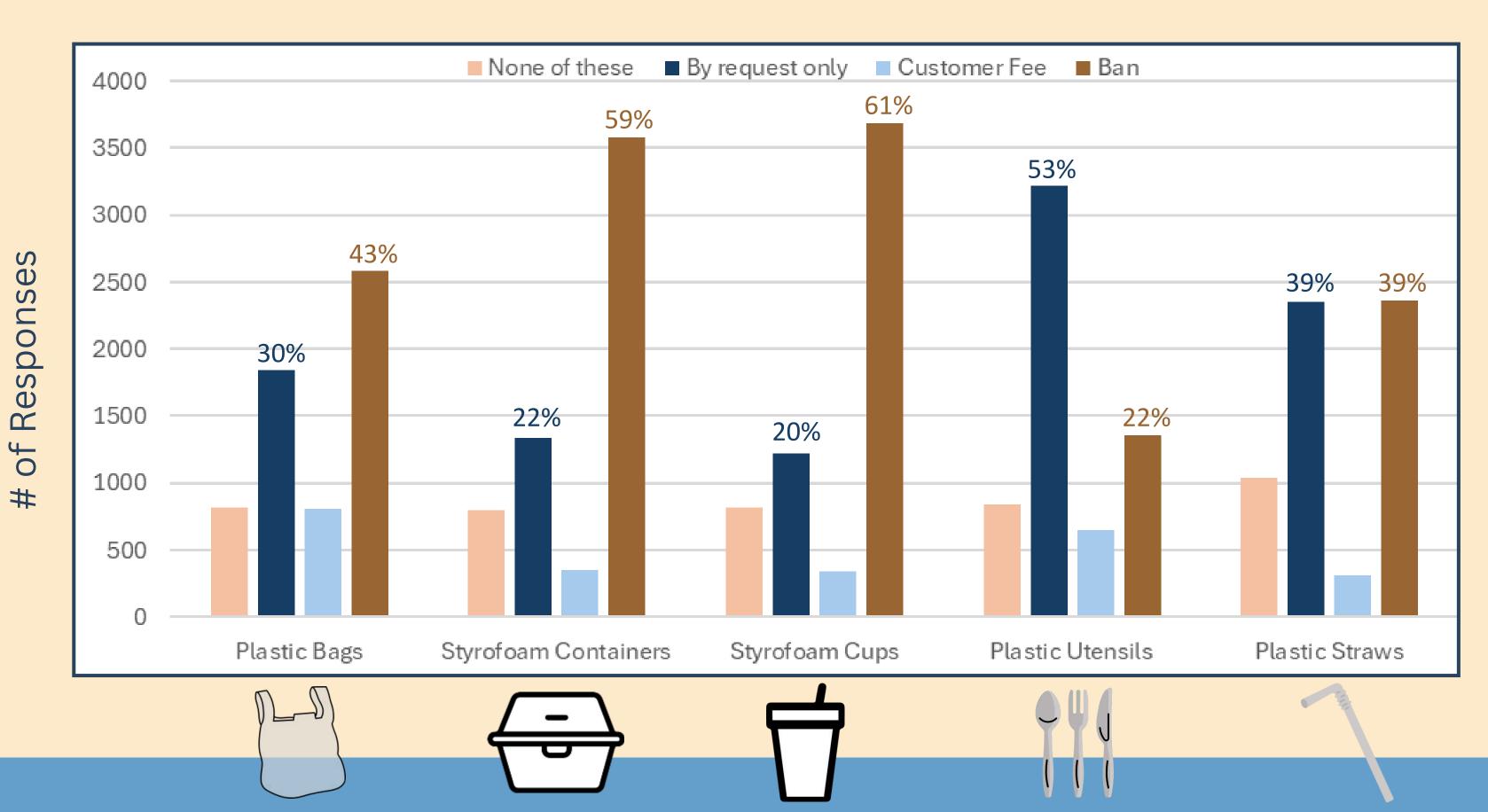
BLUFFION BUSINESSES SUPPORT SINGLE-USE PLASTIC REGULATION



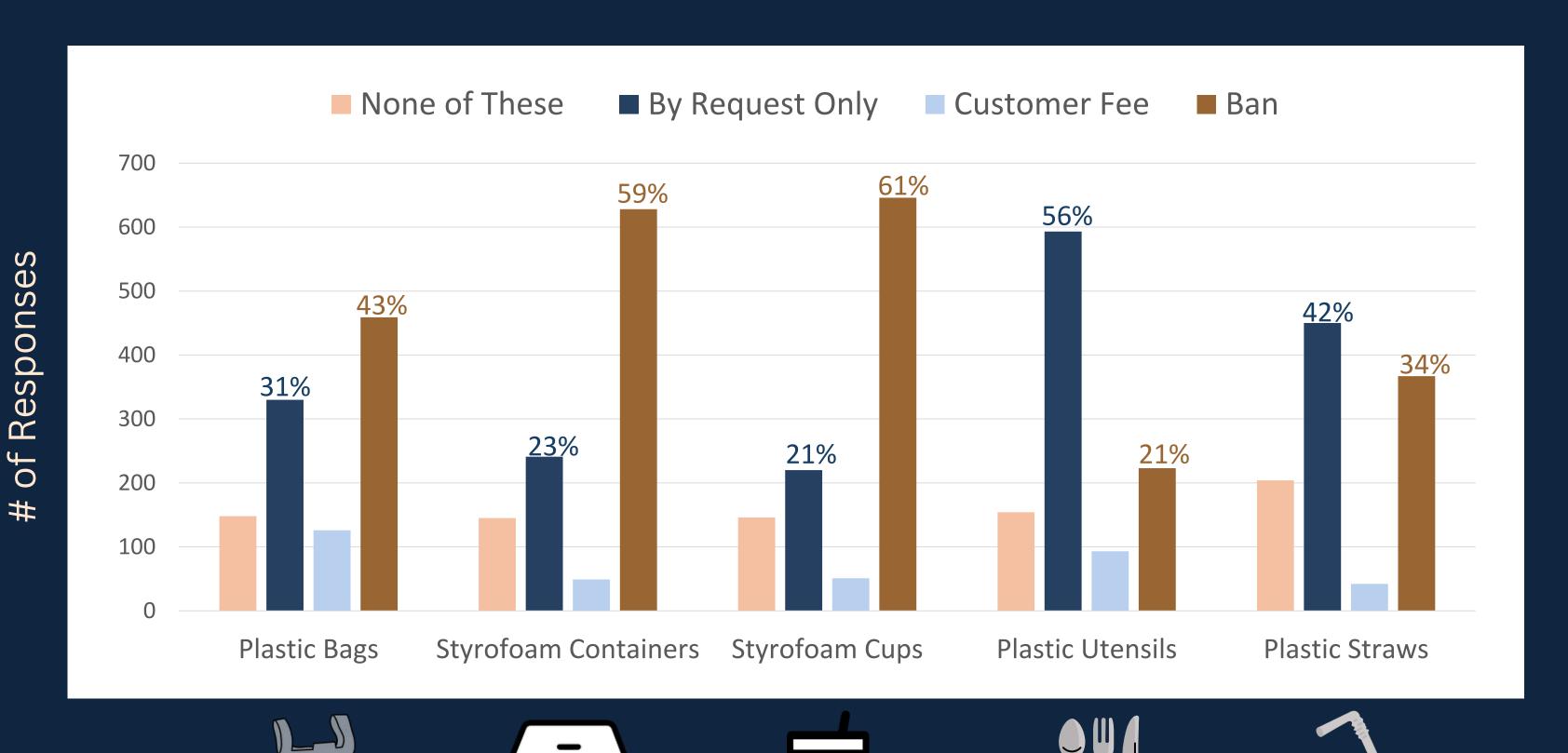
"Styrofoam should be outlawed. Plastic straws should be outlawed." - Bluffton Business

Participant

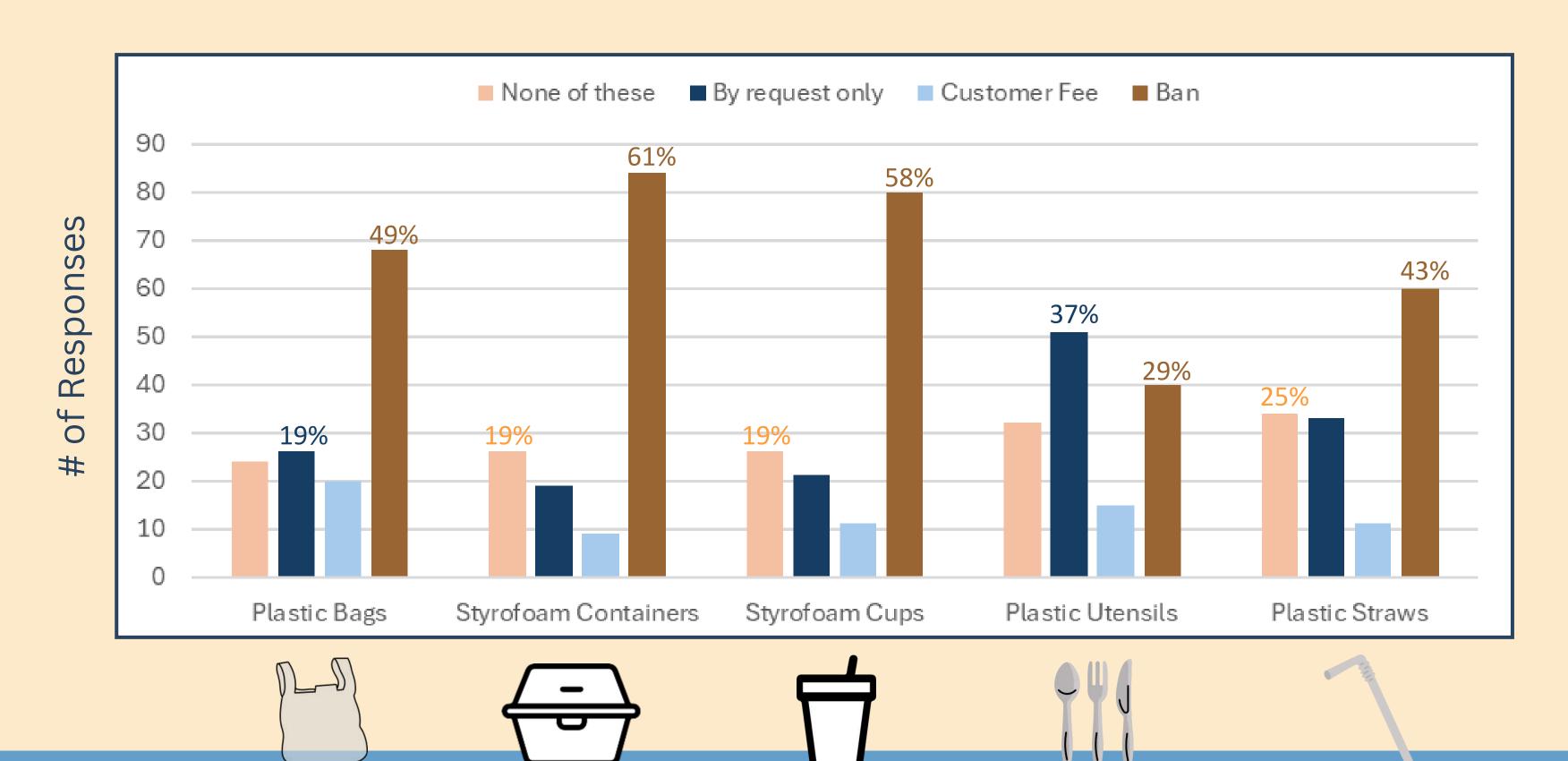
OUR RESIDENTS PREFER...



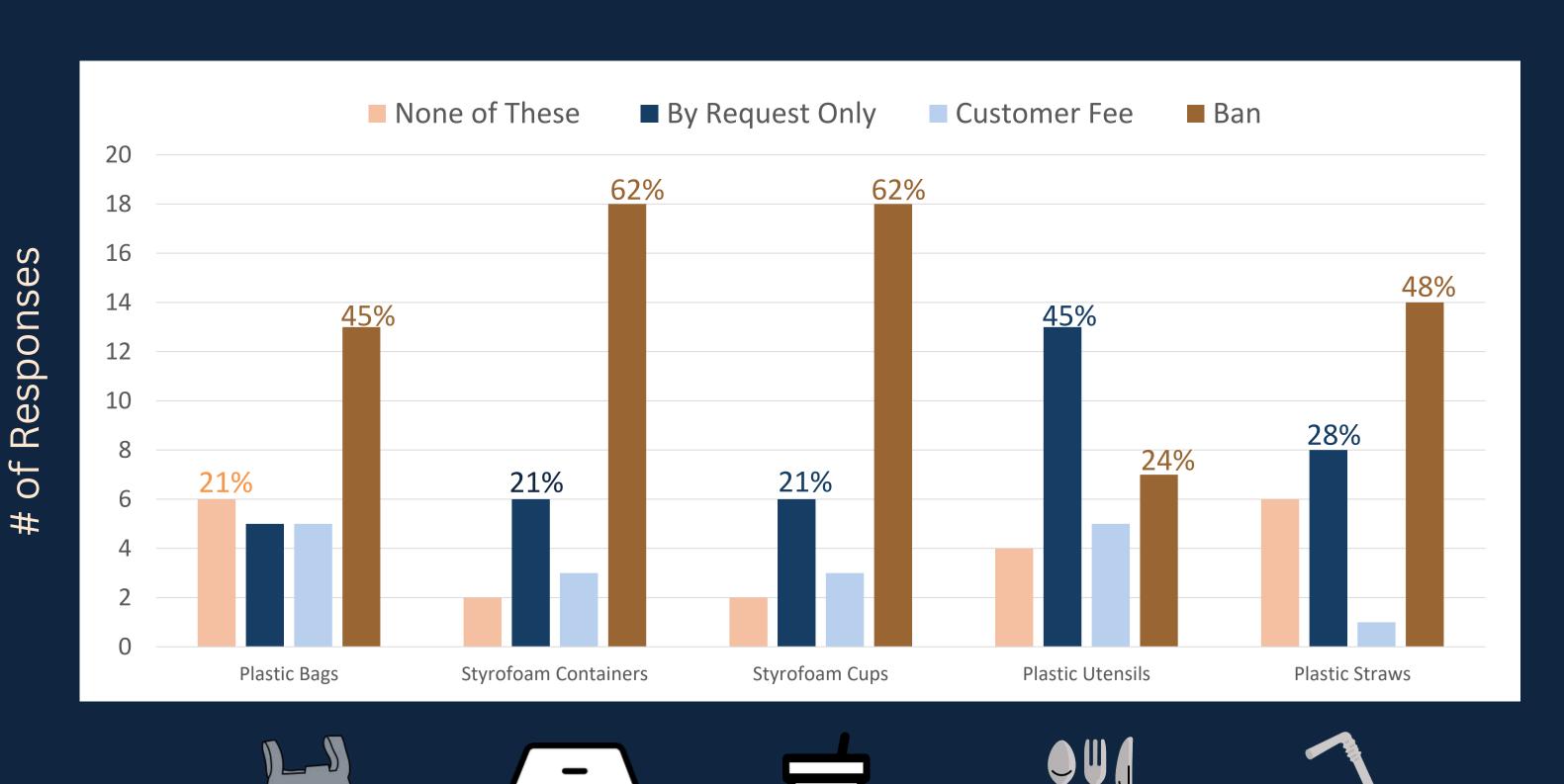
BLUFFION RESIDENTS PREFER



LAND SO DO OUR BUSINESSES.



BLUFFION BUSINESSES PREFER



What's managed where in Charleston Area

S Banned					
✓ Not banned or no regulation in place	Single-use plastic bags	Extra thick plastic bags	Straws	U U U Disposable cutlery	Plastic foam
City of Charleston	0	0	0	ON REQUEST	0
Isle of Palms	0	✓	0	✓	0
Mount Pleasant	0	0	0	✓	0
James Island	0	0	0	ON REQUEST	0
Seabrook Island	0	✓	0	✓	0
Kiawah Island	0	✓	0	✓	0
Folly Beach	0	0	✓	ON REQUEST	0
Charleston County	0	✓	0	✓	0
Edisto Island	0	✓	0	✓	0
Sullivan's Island	0	✓	0	\	0
BRANDON LOCKETT AND TOBY CO	X/STAFF				Source.

2025 Eco Tableware Costs are Very Competitive with Plastic - Only Pennies More

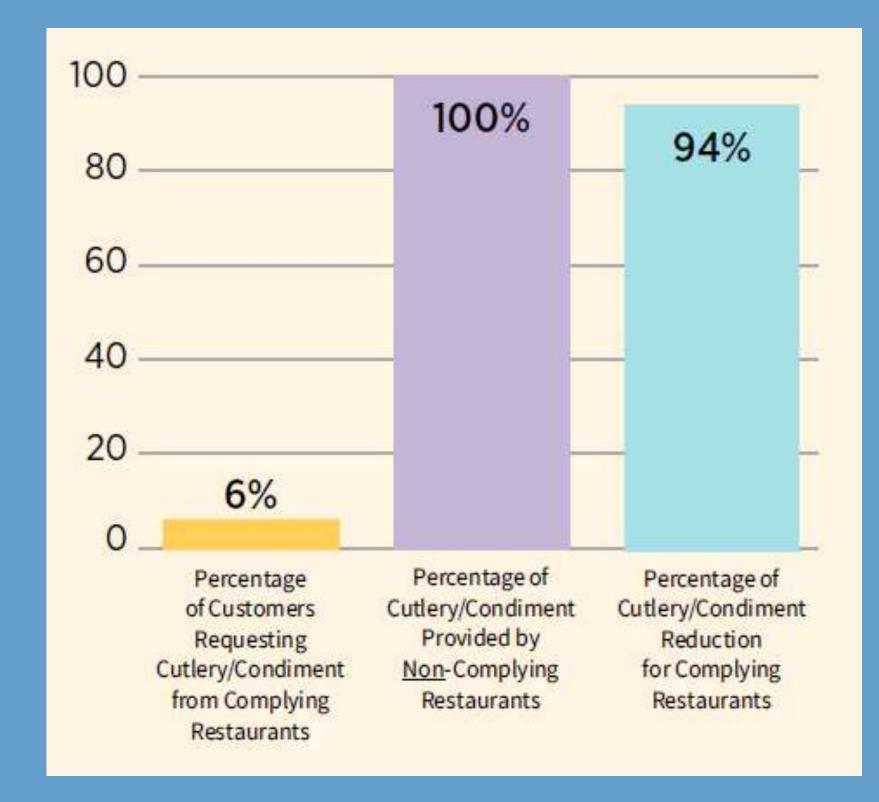
Eco tableware prices in 2025 vary based on material type, design complexity, order volume, certification requirements, and region of purchase. While the per-unit price for compostable products is still slightly higher than traditional plastics, the gap is narrowing due to scaling, innovation, and policy-driven adoption.

Product Type	Traditional Plastic (per unit)	Eco Tableware – Global Average (per unit)	Material & Notes
9"x6" Single- Compartment Clamshell	\$0.045	\$0.055–\$0.065	Bagasse pulp; compostable; PFAS-free
9"x6" 2-Compartment Clamshell	\$0.048	\$0.060-\$0.072	Bagasse; portion control; export-certified
9"x9" 3-Compartment Clamshell	\$0.052	\$0.068-\$0.080	Bagasse; catering-grade durability
16oz Salad Bowl with Lid	\$0.035	\$0.045–\$0.055	Kraft paper with PLA lining leak-resistant
24oz Soup Container	\$0.038	\$0.050-\$0.062	Kraft or bagasse; heat-safe
Cutlery Set (Fork, Spoon, Knife)	\$0.025	\$0.035–\$0.045	CPLA/cornstarch; 100% compostable
Sauce Cup (2oz) with Lid	\$0.020	\$0.030-\$0.038	Bagasse or PLA; ideal for condiments

Source: BioLeader - Updated Global Prices https://www.bioleaderpack.com/eco-tableware-vs-traditional-plastic-a-true-cost-analysis-for-2025/

DY REQUEST ONLY REDUCES COSTS





1,578,769 pieces

of toxic plastic cutlery
(over 10,000 lbs)
annually reduced
from the waste stream
as a result of 16
compliant restaurants
in Red Bank

94% reduction

in single-use cutlery and condiments for all businesses following Skip the Stuff, equating to money saved

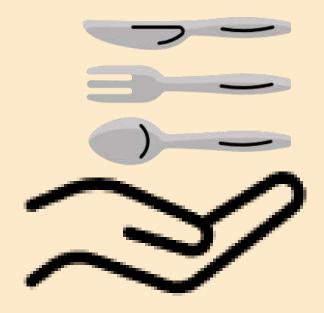
Red Bank, NJ (2024)

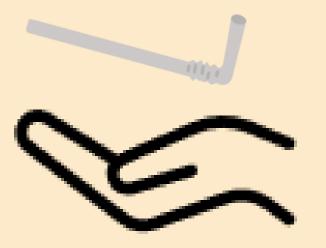
RECOMMENDATIONS

Eliminate & Replace



By Request Only













Finish Analysis



Bring back final results



Update Municipalities



Develop amendment language.



Create Implementation Plan

SOURGES

Beaufort County Single Use Plastics Survey Results – Final Report (April 2025):

http://bit.ly/48S2ACq

Slide 2: https://des.sc.gov/sites/des/files/Documents/BLWM/Recycling/OR-2660.pdf

Slide 3: https://beaufortcountysc.new.swagit.com/videos/343802

https://www.islandpacket.com/news/local/news-columns-blogs/untamed-lowcountry/article250465186.html

https://www.islandpacket.com/news/local/article247286479.htmld

Slide 4: https://scholarcommons.sc.edu/cgi/viewcontent.cgi?article=1266&context=jscas

https://www.sciencedirect.com/science/article/pii/S0048969723036227

https://repository.library.cofc.edu/items/9677ba1f-c49a-4a46-9a2b-c51ab0b9c7b3

https://www.sciencedirect.com/science/article/abs/pii/S0025326X25007544?via%3Dihub

Slide 5: https://pubs.acs.org/doi/10.1021/envhealth.3c00052

https://link.springer.com/article/10.1007/s10311-023-01593-3

https://www.nejm.org/doi/full/10.1056/NEJMoa2309822

Slide 17: https://www.postandcourier.com/rising-waters/extra-thick-plastic-bag-ban-charleston-microplastics-environment/article 7f89d7ec-242c-11ef-99ef-eb31f40d66dd.html

Slide 18: https://www.bioleaderpack.com/eco-tableware-vs-traditional-plastic-a-true-cost-analysis-for-2025/

Slide 19: https://cleanwater.org/sites/default/files/2025-04/CS STS Red Bank 03.06.25a.pdf

