













Vour RECYCLING needs some fixing!

Please leave three items out.

Pastic Bags

Frank Condenses

Frank Condenses

Process Pleas Bac

Frank Condenses



SERA

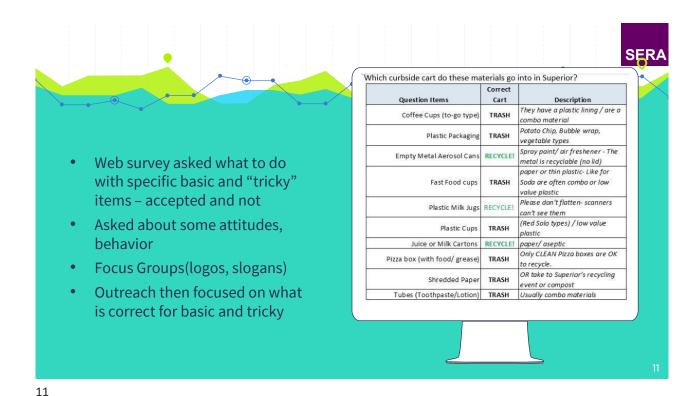
- Can we change attitudes, knowledge, and behavior through:
- **Goal 1-** A mailed postcard/flyer
  - Energy, Water- not presented
  - Recycling
- Goal 2- Through personalized education (Oops tags)
  - Recycling Only



9

9







## **Materials Improved by Outreach**

	% Clean			Bagged Recycling			Amazon Mailers			Plastic Bags			Trash		
	Oops	Postcards		Oops	Postcards		Oops	Postcards		Oops	Postcards		Oops	Postcards	
	Tags	Only	Control	Tags	Only	Control	Tags	Only	Control	Tags	Only	Control	Tags	Only	Control
Pre	23%	39%	29%	10%	6%	n/a	11%	2%	n/a	32%	31%	29%	6%	6%	6%
Post	42%	44%	18%	8%	10%	19%	2%	13%	13%	9%	18%	13%	3%	5%	13%
Pct Diff	20%	5%	-12%	2%	-4%		8%	-11%		23%	14%	17%	3%	1%	-6%
Net Pct Diff	32%	16%								6%	-3%		9%	8%	

Oops tag neighborhood had best improvement in CLEAN recycling bins: 32% net increase Postcards also improved 16% (lower effort/budget), and control area worsened.

Oops tags reduced Plastic bag contamination from about 30% to less than 10% in Oops area

Plastic bags are a problem contaminant

Other individual commodities were more difficult to tell; small sample and measurement.

Oops generally seemed to outperform postcards only

Source: @Skumatz / SERA - all rights reserved - may be used with permission of author

13



## **Materials Improved by Outreach**

	% Clean			Bagged Recycling			Amazon Mailers			Plastic Bags			Trash		
	Oops	Postcards		Oops	Postcards		Oops	Postcards		Oops	Postcards		Oops	Postcards	
	Tags	Only	Control	Tags	Only	Control	Tags	Only	Control	Tags	Only	Control	Tags	Only	Control
Pre	23%	39%	29%	10%	6%	n/a	11%	2%	n/a	32%	31%	29%	6%	6%	6%
Post	42%	44%	18%	8%	10%	19%	2%	13%	13%	9%	18%	13%	3%	5%	13%
Pct Diff	20%	5%	-12%	2%	-4%		8%	-11%		23%	14%	17%	3%	1%	-6%
Net Pct Diff	32%	16%								6%	-3%		9%	8%	

Oops tag neighborhood had best improvement in CLEAN recycling bins: 32% net increase Postcards also improved 16% (lower effort/budget), and control area worsened.

Oops tags reduced Plastic bag contamination from about 30% to less than 10% in Oops area

Plastic bags are a problem contaminant Other individual commodities were more difficult to tell; small sample and measurement.





## **Materials Improved by Outreach**

	% Clean			Bagged Recycling			Amazon Mailers			Plastic Bags			Trash		
	Oops Postcards		Oops	Postcards		Oops	Postcards		Oops	Postcards		Oops	Postcards		
	Tags	Only	Control	Tags	Only	Control	Tags	Only	Control	Tags	Only	Control	Tags	Only	Control
Pre	23%	39%	29%	10%	6%	n/a	11%	2%	n/a	32%	31%	29%	6%	6%	6%
Post	42%	44%	18%	8%	10%	19%	2%	13%	13%	9%	18%	13%	3%	5%	13%
Pct Diff	20%	5%	-12%	2%	-4%		8%	-11%		23%	14%	17%	3%	1%	-6%
Net Pct Diff	32%	16%								6%	-3%		9%	8%	

Oops tag neighborhood had best improvement in CLEAN recycling bins: 32% net increase Postcards also improved 16% (lower effort/budget), and control area worsened.

#### Oops tags reduced Plastic bag contamination from about 30% to less than 10% in Oops area

Plastic bags are a problem contaminant

Other individual commodities were more difficult to tell; small sample and measurement.

Oops generally seemed to outperform postcards only



15





# Knowledge of Correct Recyclables (Survey) Pre/ Post Education-Correct Answers for Recyclability

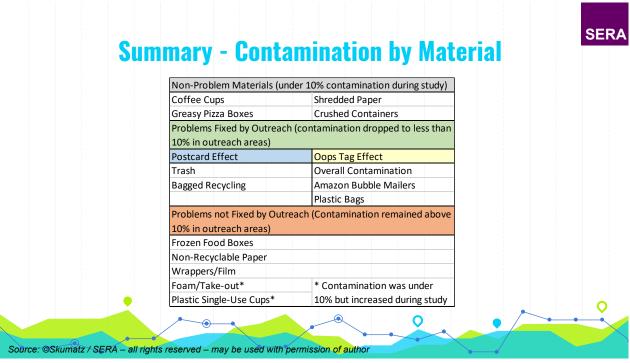
	(Y) Oops +	(Y) Oops +	(B)	(B)	(G)	(G)
Area>	PC	PC	Postcards	Postcards	Control	Control
Survey>	Pre	Post	Pre	Post	Pre	Post
No Plastic Bags	89%	97%	85%	90%	86%	90%
Clear Clamshells Allowed	66%	74%	74%	74%	81%	66%
NoSingle Use Coffee Cups	56%	82%	63%	71%	62%	56%
No Frozen Food Containers	54%	81%	43%	56%	45%	60%
Metal Lids Recycled Off	72%	76%	71%	77%	74%	74%
Plastic Lids Left ON	41%	66%	51%	60%	44%	50%
No Shredded Paper	60%	82%	71%	79%	70%	74%
Clean, Balled Aluminum Allowed	64%	82%	71%	75%	73%	79%
No Foam / Take-out	86%	90%	78%	81%	84%	87%

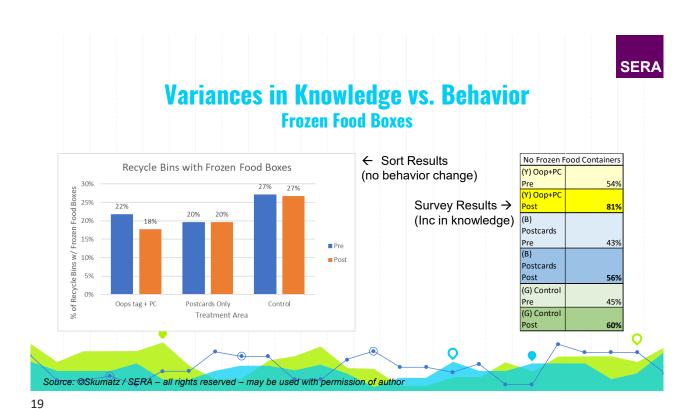
- Oops tag + Postcards (Yellow) improved the most and in more items
- Control (Green) improved in some areas, but got worse in others.

Source: ©Skumatz / SERA – all rights reserved – may be used with permission of author

1

4/22/2022









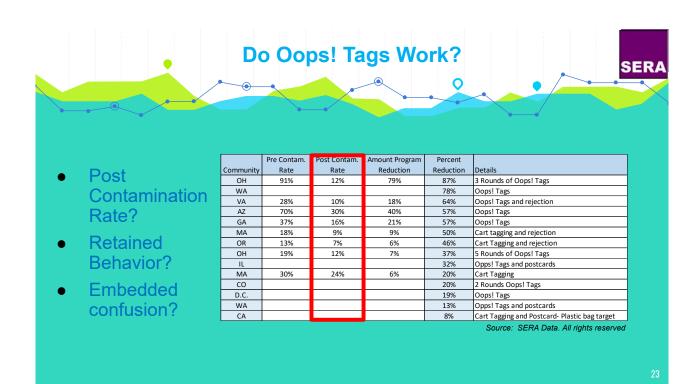
Why are Oops! Tags so Popular?

SERA

## **Oops! Tag Program Results Across the US**

	Pre Contam.	Post Contam.	Amount Program	Percent	
Community	Rate	Rate	Reduction	Reduction	Details
Marysville, OH	91%	12%	79%	87%	3 Rounds of Oops! Tags
Bothell, WA				78%	Oops! Tags
Newport News, VA	28%	10%	18%	64%	Oops! Tags and rejection
Phoenix, AZ	70%	30%	40%	57%	Oops! Tags
Atlanta, GA	37%	16%	21%	57%	Oops! Tags
Newton, MA	18%	9%	9%	50%	Cart tagging and rejection
Medford, OR	13%	7%	6%	46%	Cart Tagging and rejection
Cincinnati, OH	19%	12%	7%	37%	5 Rounds of Oops! Tags
Chicago, IL				32%	Opps! Tags and postcards
Superior, CO				20%	2 Rounds Oops! Tags
Lowell, MA	30%	24%	6%	20%	Cart Tagging
Washington D.C.				19%	Oops! Tags
Spokane, WA				13%	Opps! Tags and postcards
Napa, CA				8%	Cart Tagging and Postcard- Plastic bag target

Source: ©Skumatz / SERA – all rights reserved – may be used with permission of author



**Resources for Oops! Tags** Recycling Partnership - "Anti-Contamination Recycling Kit" WHAT YOU'LL NEED https://recyclingpartnership.org/wp-content/uploads/2018/05/Anti-Contamination-Toolkit EDITED.pdf CONTRACT CONSIDERATIONS North Carolina's DEQ- "Cart Tagging 101" https://files.nc.gov/ncdeq/Environmental%20Assistance%20and%20 WORKSHEETS Customer%20Service/Education%20and%20Outreach/Recycling Out reach/Cart-Tagging-101-Handout.pdf ☐ Your recycling hauler ☐ Your MRE contract (if separate from hauling)

24

