

APPENDICES B-F

Consumer Education and Access Technical Report

**A Plastic Pollution Prevention and
Packaging Producer Responsibility Act
Needs Assessment Report**

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Appendix B: Glossary of Terms included in Participant Survey

Term	Description
CalFresh	Also known federally as the Supplemental Nutrition Assistance Program (SNAP), see SNAP definition. CalFresh is a program that issues monthly electronic benefits to help people with low incomes buy most foods at many markets and food stores.
EBT	(Electronic Benefit Transfer) The EBT system delivers, redeems, and reconciles issued public assistance benefits, such as CalFresh, CalWORKS, and other food and cash aid benefits. EBT is accessible in California, the other 49 states, the District of Columbia, Puerto Rico, the Virgin Islands, and Guam.
Environmental Organization	A nongovernmental organization, often a nonprofit, that advocates for conservation efforts, climate action, and/or sustainable land or coastal management. Examples include World Wildlife Fund (WWF), The Nature Conservancy (TNC), or Surfrider Foundation.
Food Service Ware	A container that is made of plastic and is in direct contact with food (i.e., disposable plate) or used in conjunction with consuming the food item (i.e., disposable fork). The single use plastic food service ware is discarded after the food content is consumed or provided to the consumer and does not require any further preparation or packaging prior to consumption.
Single-Use Plastic Packaging	Packaging that is discarded after its contents have been used or unpackaged. It will not include packaging that is refilled with the same content or re-used by the manufacturer.
SNAP	Provides food benefits to low-income families to supplement their grocery budget. SNAP benefits cover any household food, such as fruits, vegetables, meats, poultry, fish, dairy products, breads and cereals, snack foods and nonalcoholic beverages, and seeds and plants that produce food.
WIC	WIC is a Special Supplemental Nutrition Program for Women, Infants, and Children. WIC provides free, healthy foods and personalized nutrition education, breastfeeding support, and referrals to other health care and social services.

Appendix C: Images included in Participant Survey

Question 1

Image 6



Question 5

Image 8



Question 5

Image 9



Image 10



Question 10

Image 11



Question 11

Image 4

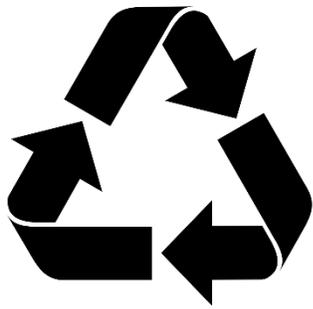
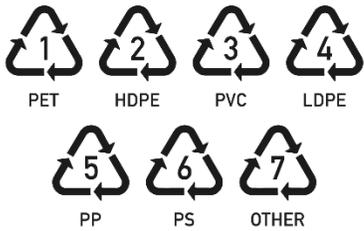


Image 12

Plastic Resin Codes



Question 13

Image 1



Question 17

Image 13



Question 23

Image 2



Question 23

Image 5



Question 26

Image 3



Question 29

Image 7



Question 35

Image 14



Appendix D: Survey Fielding Statistics

A total of 2,297 total surveys were completed and a total of 4,032 potential respondents clicked on the survey link.

The average survey length was 16 minutes and 59 seconds (16:59).

The median survey length was 11 minutes and 27 seconds (11:27).

Appendix D1 – Total and Targeted Completes by Segment

	Total Completes	Targeted Completes
Total	2,297	2,200
Age		
18-44	1,095	900 – 1,200
45-64	730	500 – 700
65+	472	300 - 500
CA Regions/Designated Market Area		
Los Angeles-Long Beach-Anaheim	624	Min. 400
Sacramento-Roseville-Arden/Arcade/Hanford-Corcoran/Visalia-Porterville/ Fresno/Madera/Merced/Vallejo-Fairfield	441	Min. 400
San Francisco-Oakland-Hayward/Stockton-Lodi/San Jose/Sunnyvale-Santa Clara-Santa Cruz-Watsonville/Modesto/Monterey-Salinas	525	Min. 400
Riverside-San Bernardino-Ontario/Bakersfield/San Luis Obispo/Santa Maria/Oxnard/El Centro/San Diego-Carlsbad/Palm Springs/El Centro-Yuma	490	Min. 400
Chico/Eureka/Redding/Ukiah/Clearlake/Napa/ Yuba City/Truckee/Santa Rosa	217	Min. 200
Population Density		
Rural	326	100 – 300
Urban	937	900 – 1,200
Suburban	1001	900 – 1,200
Prefer not to answer	33	N/A
Residence Type		
Single-family Home	1447	1,100 – 1,500
Multifamily Dwelling	707	400 – 800
Other	143	300 – 500

	Total Completes	Targeted Completes
Employment Status		
Full or Part-Time	1,520	1,200 – 1,600
Retired/Unemployed/Homemaker/Student	750	600 – 1,000
Prefer not to answer	27	N/A
Income		
Under \$70K	970	600 – 900
\$70k to \$149K	655	600 – 900
Over \$150K	635	600 – 900
Prefer not to answer	37	N/A
Gender		
Male	1119	900 – 1,300
Female	1162	900 – 1,300
Nonbinary	12	N/A
Prefer not to answer	4	N/A
Race		
White	1678	1,300 – 1,600
Asian/Pacific Islander	225	200 – 400
African American	233	100 – 200
American Indian or Alaska Native	43	N/A
Multiple or other	95	N/A
Prefer not to answer	23	N/A
Hispanic		
Yes	745	700 – 1,000
No	1543	1,200 – 1,500
Prefer not to answer	9	N/A
Language Spoken at home		
English only	1590	N/A
Language other than English	707	600 – 900
Marital Status		
Single	768	700 – 1,000
Married	1080	900 – 1,100
Divorced/Widowed/Separated	267	100 – 300
Living with Partner	175	N/A

	Total Completes	Targeted Completes
Prefer not to answer	7	N/A
Household Composition		
2 or fewer	989	1,100 – 1,500
3 or more	1233	700 – 1,100
Prefer not to answer	75	N/A
Has Children under 17	945	600 - 900
Priority populations		
Disadvantaged Community	1,118	Min. 300
Under \$70K	970	600 – 900
Rural	326	100 – 300
Multifamily Dwelling	707	400 – 800
California Native American Tribes	54	N/A

Appendix D2 – Disadvantaged Community (DAC) Zip Codes

For a list of zip codes associated with disadvantaged communities, refer to document: Appendix D2 – DAC Zip Code List.

Appendix D3 – Native American Heritage Commission (NAHC) Tribe List

For the NAHC List used, refer to document: Appendix D3 – Native American Heritage Commission (NAHC) Tribes List.

Appendix E: Data Quality Assurance and Control

The contractor adhered to industry-standard procedures and best practices for data quality assurance and control. The survey was programmed and quality control (QC) tested by several staff members of the contractor and CalRecycle teams prior to launch.

- A “soft launch” was conducted, which consisted of fielding the survey among approximately 30 to 50 respondents to complete the survey, then pausing survey fielding to go through several levels of QC checking of the preliminary data.
- QC checking involved going through each survey question to ensure that the data collection software had accurately recorded responses for each respondent, including skip pattern and branching logic.
- If any issues were identified, the survey program was corrected before any additional respondents participated.
- Once the data was checked and confirmed, the fielding process was resumed.
- These QC checks were also performed throughout the fielding process and data collection was monitored on a daily basis.
- If data for any respondents were identified as incomplete/missing/corrupted, all data for that respondent was discarded and not included in the final dataset or total completion count.

Appendix F: Correct Sorting Response Key

The following analysis aims to estimate “correct” sorting behaviors. What is accepted in different bins varies within and between communities; however, the survey could not allow individual respondent-specific designations to be established for whether an item was sorted correctly for their specific community. Given this, CalRecycle provided a list of which items were considered recyclable and eligible to be labeled compostable in the [December 31, 2024 update to the CMC List](#). If an item falls into a CMC deemed recyclable, it was considered correct to place that item in the recycling bin. If an item falls into a CMC deemed eligible to be labeled compostable, it was considered correct to place that item in the green materials bin.

Survey Description	CMCs Assumed to be Included (Code; Description)	CMCs Considered Recyclable in December 31, 2024 update to CMC List?	CMCs Considered Compostable in December 31, 2025 update to CMC List?	Assumed "Correct" Bin for Sorting	Other Assumptions
PET #1 (e.g., berry clamshells)	24_P1P 24_P2P 24_P38P 24_P39P	Yes	No	Recycling	Assume this is in reference to rigid PET items, given examples
HDPE #2 (e.g., plastic milk jug)	24_P6P 24_P7P 24_P8P 24_P40P	Yes	No	Recycling	Assume this is in reference to rigid HDPE items, given examples
PVC #3 (e.g., shrink wrap, stretch wrap)	24_P12P	No	No	Trash	Assume this in reference to film PVC items, given examples

Survey Description	CMCs Assumed to be Included (Code; Description)	CMCs Considered Recyclable in December 31, 2024 update to CMC List?	CMCs Considered Compostable in December 31, 2025 update to CMC List?	Assumed "Correct" Bin for Sorting	Other Assumptions
LDPE #4 (e.g., rigid plastic lid, bubble wrap)	24_P13P 24_P14P 24_P15P 24_P16P	No	No	Trash	Assume this in reference to both film and rigid items given examples
PP #5 (e.g., plastic yogurt tub)	24_P17P 24_P41P 24_P20P	Yes	No	Recycling	Assume this is in reference to rigid PP items, given examples
PS #6 (e.g., plastic coffee cup lid)	24_P23P 24_P42P 24_P43P	No	No	Trash	Assume this is in reference to rigid PS items, given examples
Plastic labeled as compostable (e.g., bags or cups)	24_P44P 24_P45P	No	No	Trash	Assume this in reference to both film and rigid items given examples
Styrofoam (e.g., takeout container/cup)	24_P23P 24_P42P	No	No	Trash	Assume this is in reference to rigid PP items, given examples

Survey Description	CMCs Assumed to be Included (Code; Description)	CMCs Considered Recyclable in December 31, 2024 update to CMC List?	CMCs Considered Compostable in December 31, 2025 update to CMC List?	Assumed "Correct" Bin for Sorting	Other Assumptions
Plastic utensils/ straws	24_P19P 24_P27P	No	No	Trash	
Plastic bags	24_P5P 24_P10P 24_P12P 24_P16P 24_P22P 24_P29P 24_P45P 24_P36P	No	No	Trash	Assume flexible/film items for all plastic resins
Aluminum foil/tray	24_M2N 24_M2P 24_M3N 24_M3P	Yes	No	Recycling	
Soup/metal can	24_M6N 24_M6P	Yes	No	Recycling	
Glass jar/bottle (e.g., pasta sauce)	24_G1N 24_G1P	Yes	No	Recycling	

Survey Description	CMCs Assumed to be Included (Code; Description)	CMCs Considered Recyclable in December 31, 2024 update to CMC List?	CMCs Considered Compostable in December 31, 2025 update to CMC List?	Assumed "Correct" Bin for Sorting	Other Assumptions
Ceramic item (e.g., ceramic makeup jar)	24_C1N 24_C1P 24_C2N 24_C2P	No	No	Trash	
Paper bag	24_PF1N 24_PF1P 24_PF11N 24_PF11P 24_PF12N 25_PF12P	Yes	Yes (CMCs w/o plastic component)	Recycling, Green Materials	Assume bag is either kraft paper, white paper, or other/mixed paper. Assume no plastic component for some items
Paper milk carton	24_PF5P	No	No	Trash	
(IMAGE 1) Aseptic carton (e.g., chicken, beef, or vegetable stock cartons)	24_PF15P	No	No	Trash	

Survey Description	CMCs Assumed to be Included (Code; Description)	CMCs Considered Recyclable in December 31, 2024 update to CMC List?	CMCs Considered Compostable in December 31, 2025 update to CMC List?	Assumed "Correct" Bin for Sorting	Other Assumptions
(IMAGE 13) Molded fiber container (e.g., egg carton)	24_PF14N 24_PF14P	Yes (CMCs w/o plastic component)	Yes (CMCs w/o plastic component)	Trash, Recycling, Green Material	Assume that this could or could not contain a plastic component.
Paper envelope	24_PF1N 24_PF1P 24_PF11N 24_PF11P	Yes	Yes (CMCs w/o plastic component)	Recycling, Green Materials	Assume envelope is either kraft paper or white paper
Cereal/paper board box	24_PF10N 24_PF10P	Yes	Yes (CMCs w/o plastic component)	Recycling, Green Materials	Assume this could or could not contain a plastic component
Cardboard box	24_PF9N 24_PF9P	Yes (CMCs w/o plastic component)	Yes (CMCs w/o plastic component)	Recycling, Green Materials	Assume this could or could not contain a plastic component. Assume this does not include waxed cardboard
Cloth bag (e.g., fabric bag for bedding)	24_P34P 24_WO3N 24_WO3P	No	No	Trash	Assume textile is either synthetic or nonsynthetic

Survey Description	CMCs Assumed to be Included (Code; Description)	CMCs Considered Recyclable in December 31, 2024 update to CMC List?	CMCs Considered Compostable in December 31, 2025 update to CMC List?	Assumed "Correct" Bin for Sorting	Other Assumptions
Wooden box	24_WO1N 24_WO1P	No	Yes (CMCs w/o plastic component)	Trash, Green Materials	Assume wooden box is not treated, painted and/or stained. Assume this could or could not contain a plastic component