

SB 343 Revised Preliminary Findings

SB 343 (Allen, Chapter 507,
Statutes of 2021)

Department of Resources Recycling
and Recovery (CalRecycle)

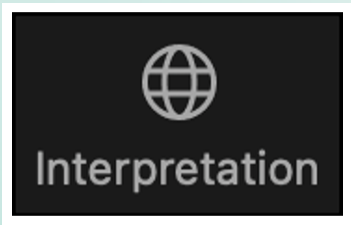
February 3, 2025



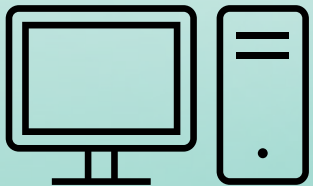
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Agenda

Opening Remarks

Clara Vazeix, Deputy Director, Policy Development and Analysis Office

Part I: SB 343 Overview

Jennifer Haynes White, Senior Environmental Scientist (Supervisor)

Part II: Jurisdiction Survey – Methodology and Revised Preliminary Findings

Kaycey Bui, Environmental Scientist

Part III: Large Volume Transfer/Processor (LVTP) Survey and Sampling – Methodology and Revised Preliminary Findings

Nik Soltis, Environmental Scientist

Part IV: Next Steps

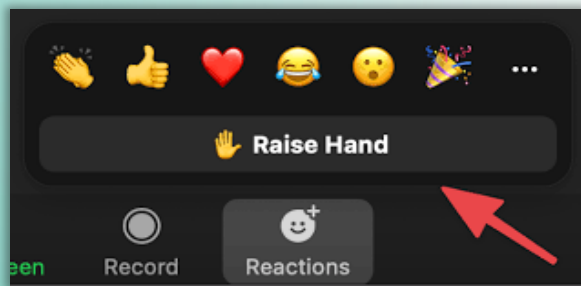
Dan Brown, Environmental Program Manager II

Part V: Questions and Public Comments

Moderated by Dan Brown;
CalRecycle Panel

Questions and Comments

- To make a comment in-person, please line up at the podium.
- To make an oral comment via Zoom, please raise your hand and the host will unmute you.



- To make a written comment via Zoom, please use the chat box.

Timeline – SB 343 Revised Preliminary Findings Report

- ***December 31, 2024*** – Revised Preliminary Findings Report published
- ***February 3, 2025*** – Public meeting to present the preliminary findings and receive public comments
- ***February 18, 2024*** – Requested date for members of the public to submit comments for consideration in the development of the final publication
- ***By April 4, 2025*** - Publication of final SB 343 Findings Report (60 days after the public meeting)

Opening Remarks

**Department of Resources Recycling and Recovery,
Policy Development and Analysis Office**

Clara Vazeix

Deputy Director

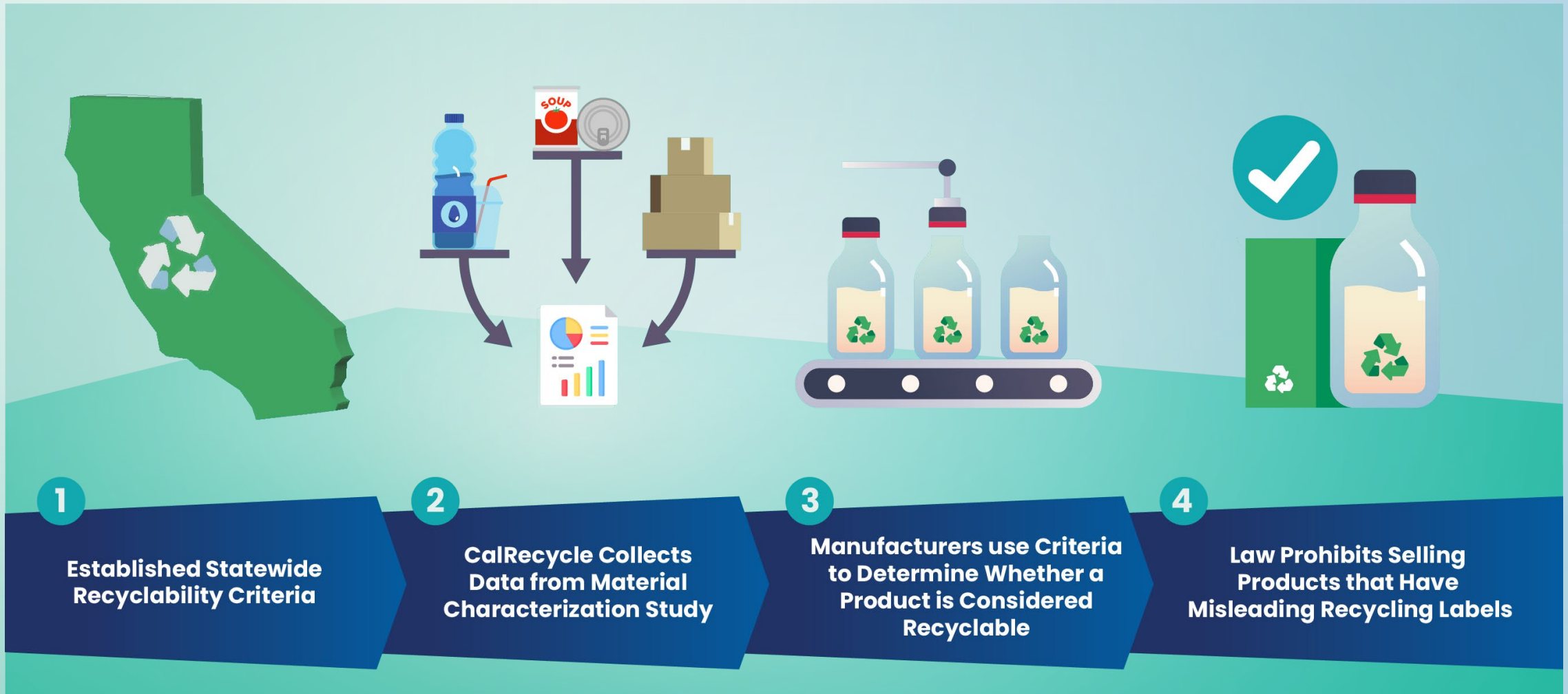
Part I. SB 343 Overview

**Department of Resources Recycling and Recovery,
Knowledge Integration Section**

Jennifer Haynes White

Senior Environmental Scientist (Supervisor)

SB 343 Overview



Recyclability Criteria (1 of 2)

- Public Resources Code (PRC) 42355.51(d)(2): a product or packaging may be considered recyclable in the state if the product or packaging is of a **material type and form** that is both:
 - (A) Collected for recycling by recycling programs *for jurisdictions that collectively encompass at least 60 percent of the population of the state;* and
 - (B)(i) The material type and form is sorted into defined streams for recycling processes by large volume transfer or processing facilities ... that process materials and collectively serve at least 60 percent of recycling programs statewide, with the defined streams sent to and reclaimed at a reclaiming facility consistent with the requirements of the Basel Convention.

Recyclability Criteria (2 of 2)

Public Resources Code (PRC) 42355.51(d)(3): A product or packaging shall not be considered recyclable in the state unless the product or packaging meets all of the following criteria, as applicable:

- (A) For plastic packaging, the plastic packaging is designed to not include any components, inks, adhesives, or labels that prevent the recyclability of the packaging according to the APR Design® Guide published by the Association of Plastic Recyclers.
- (B) For plastic products and non-plastic products and packaging, the product or packaging is designed to ensure recyclability and does not include any components, inks, adhesives, or labels that prevent the recyclability of the product or packaging.
- (C) The product or packaging does not contain an intentionally added chemical identified pursuant to the regulations implementing subparagraph (4) of subdivision (g) of Section 42370.2.
- (D) The product or packaging is not made from plastic or fiber that contains perfluoroalkyl or polyfluoroalkyl substances or PFAS that meets either of the following criteria:
 - (i) PFAS that a manufacturer has intentionally added to a product or packaging and that have a functional or technical effect in the product or packaging, including the PFAS components of intentionally added chemicals and PFAS that are intentional breakdown products of an added chemical that also have a functional or technical effect in the product.
 - (ii) The presence of PFAS in a product or product component or packaging or packaging component at or above 100 parts per million, as measured in total organic flourine.

Material Characterization Studies (MCS)

- Senate Bill (SB) 343 directs CalRecycle to conduct a study of the types and forms of materials that are collected, sorted, and sold by large volume transfer/processors in CA
- Statute required CalRecycle to publish "a characterization study of material types and forms that are collected, sorted, sold, or transferred" by solid waste facilities. – PRC 42355.51(d)(1)(B)(i)
- CalRecycle must update the study in 2027 and every five years thereafter - PRC 42355.51(d)(1)(B)(ii)
- CalRecycle may publish additional information that was not available at the time of the most recent MCS - PRC 42355.51(d)(1)(B)(iii)

Report Publication and Public Engagement

- PRC 42355.51(d)(1) required CalRecycle to publish the draft by January 1, 2024.
 - Preliminary Report Published on December 28, 2023.
 - Revised Preliminary Report Published on December 31, 2024
- PRC 42355.51(d)(1)(B)(v) requires that CalRecycle:
 - Consider public comments
 - Present the draft findings at a public meeting
 - Finalize and publish the findings of the study within 60 days of the public meeting.

Scope of Revised Preliminary Findings

- This report includes data related to ***material type and forms***:
 - Accepted by residential curbside recycling programs for jurisdictions; and
 - Sorted and sold by large volume transfer or processing facilities
 - Composition of material bales sold by selected large volume transfer or processing facilities
- This implements the study parameters set forth in statute: collection, sortation, sale, and transfer at solid waste facilities in the state
- The only requirement placed on solid waste facilities are that they allow periodic sampling of materials
- The findings do not relate to product-specific criteria established in statute
- The findings do not address the destination or ultimate disposition of materials sold or transferred by large volume transfer processors

Structure of Revised Preliminary Findings Report

- Background
- Methodology
- Summary of Findings
 - Collection by Jurisdiction Residential Curbside Recycling Programs
 - Materials Sorted by Large Volume Transfer/ Processing (LVTP) Facilities
 - Material Characterization Study (MCS) at LVTPs
- Appendices
 - Methodological Details and Data Tables
 - Public Comments and Data Availability

Methodology Changes from the Preliminary Findings Report

- New Jurisdiction Survey
- New Material Characterization Study sorting data (second sampling period)
- Supplementary analysis
 - Inflow-scaled sorting coverage
 - Outflow-filtered sorting coverage

Part II. Jurisdiction Survey – Methodology and Revised Preliminary Findings

**Department of Resources Recycling and Recovery,
Knowledge Integration Section**

Kaycey Bui
Environmental Scientist

Jurisdiction Survey: Methodology Comparison

- Preliminary Report – publicly available information collected from jurisdictions' recycling program websites
- Revised Preliminary Report – survey completed by local jurisdictions
 - Survey gaps filled by CalRecycle staff survey based on publicly available information including a jurisdiction's recycling program website

Jurisdiction Survey: Revised Methodology

- CalRecycle obtained a list of CA jurisdictions and associated population estimates for 2023;
- Local jurisdictions surveyed to determine materials collected by their **jurisdiction residential curbside recycling programs**;
- Aligned materials accepted by jurisdiction recycling programs to the list of SB 343 material types and forms (MT&Fs);
- Estimated the proportion of the state's population encompassed by jurisdictions that accept a given MT&F



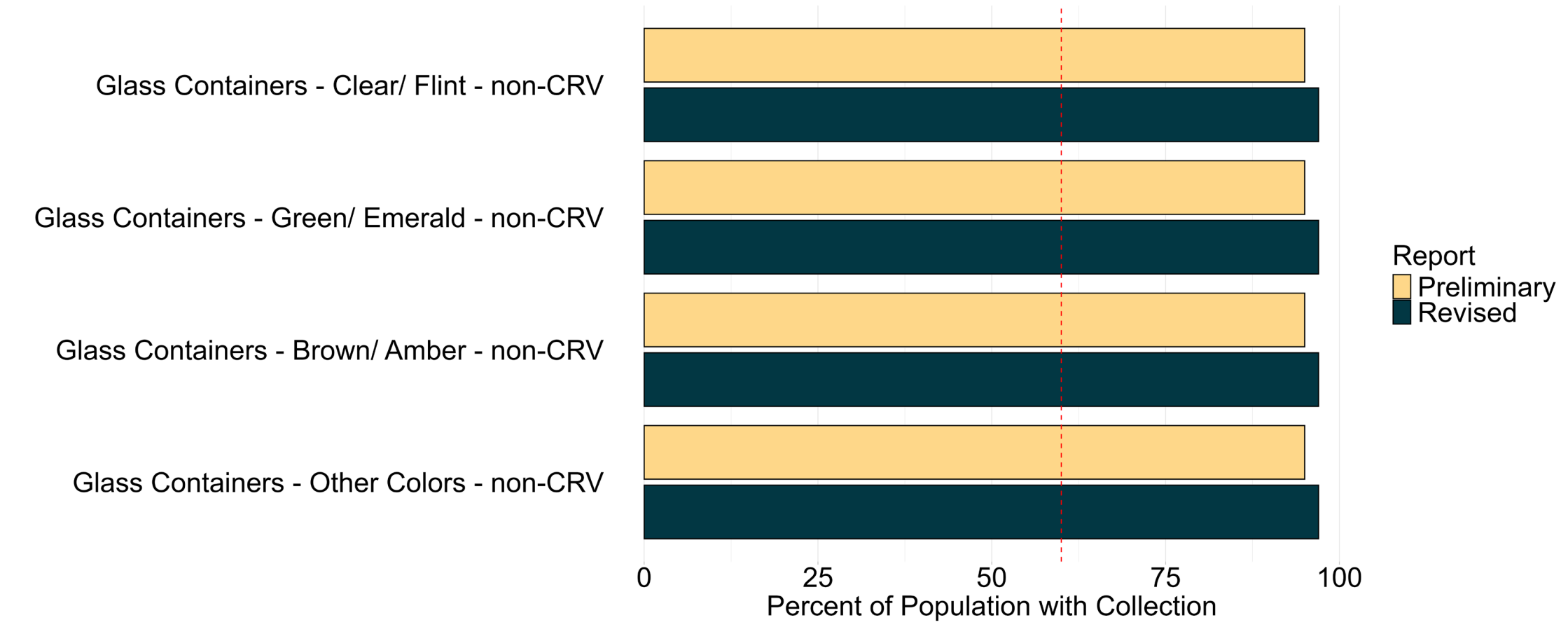
Jurisdiction Survey: Responses

- Total of 407 surveys
 - 295 answered by Local Jurisdiction staff (72%)
 - 112 answered by CalRecycle staff (28%)
- 538 Local Jurisdictions in California
 - Cities and unincorporated county
 - 437 covered by Local Jurisdiction responses (89%)
 - 101 covered by CalRecycle staff responses (11%)

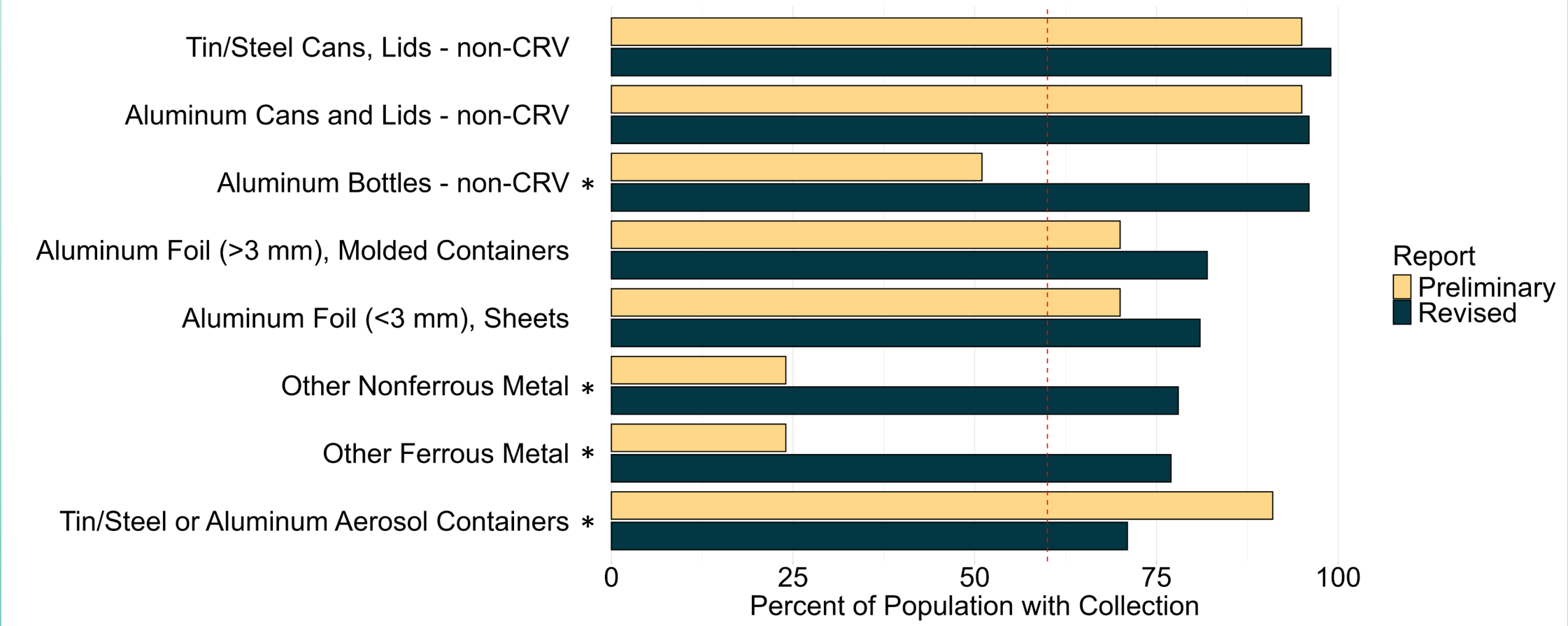
Jurisdiction Survey Methodology - Example Material Type Alignment

- Jurisdiction Survey Category: “Glass Bottles”
- Aligned SB 343 Material Types and Forms:
 - “Glass Containers – Clear/Flint – non-CRV”
 - “Glass Containers – Green/Emerald – non-CRV”
 - “Glass Containers – Brown/Amber – non-CRV”
 - “Glass Containers – Other Colors – non-CRV”

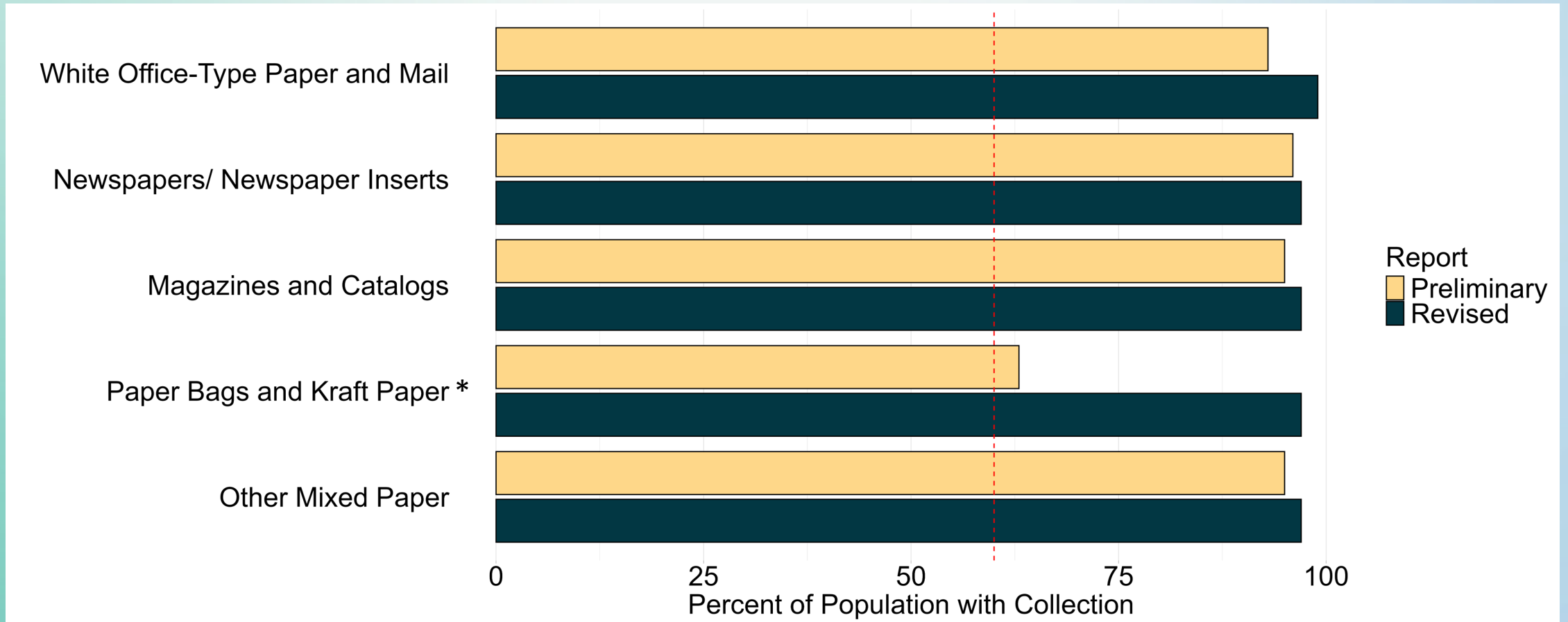
Collection by Jurisdictions: Glass



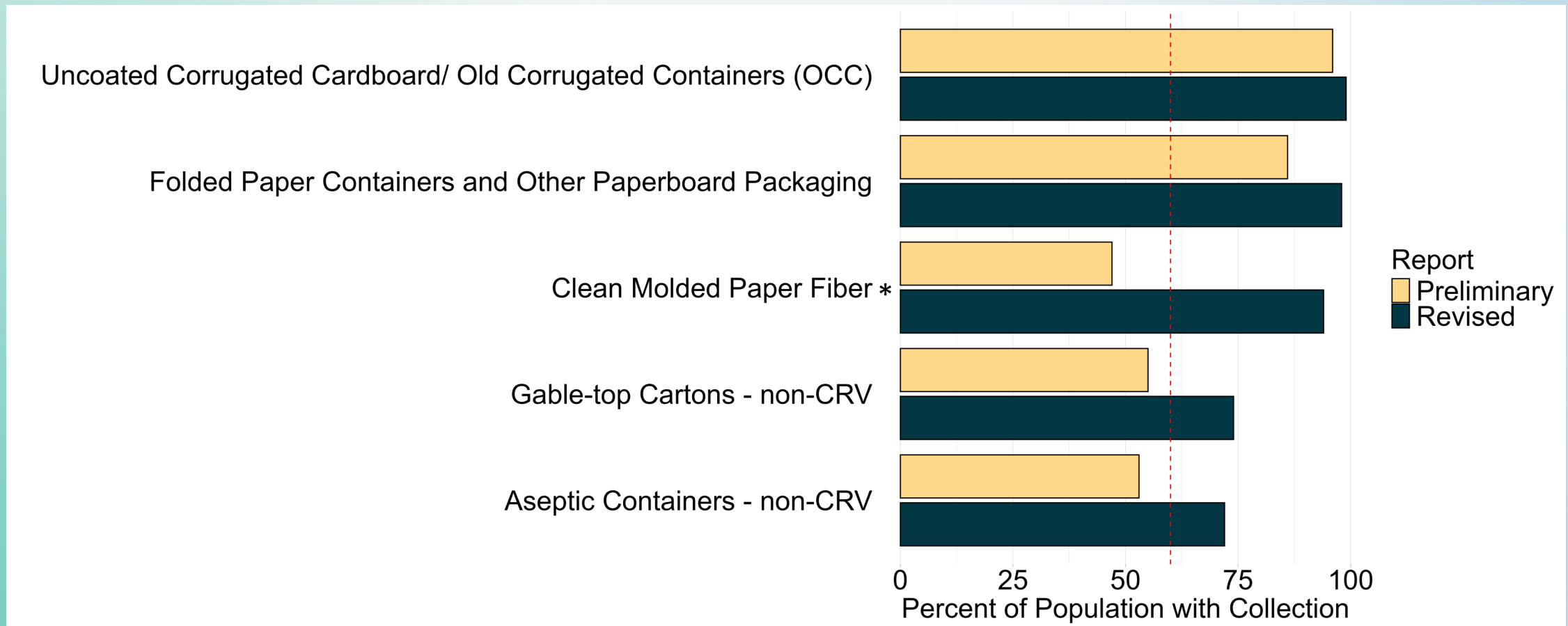
Collection by Jurisdictions: Metal



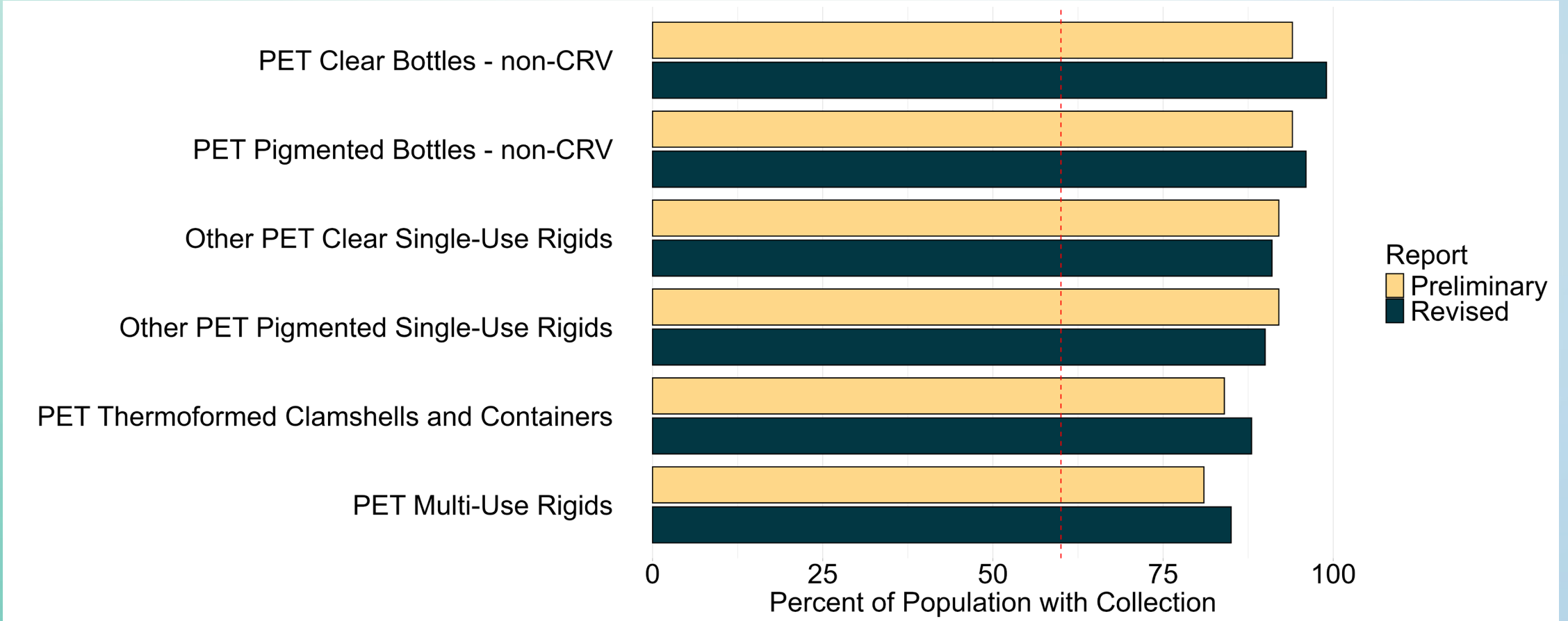
Collection by Jurisdictions: Paper and Fiber (1 of 2)



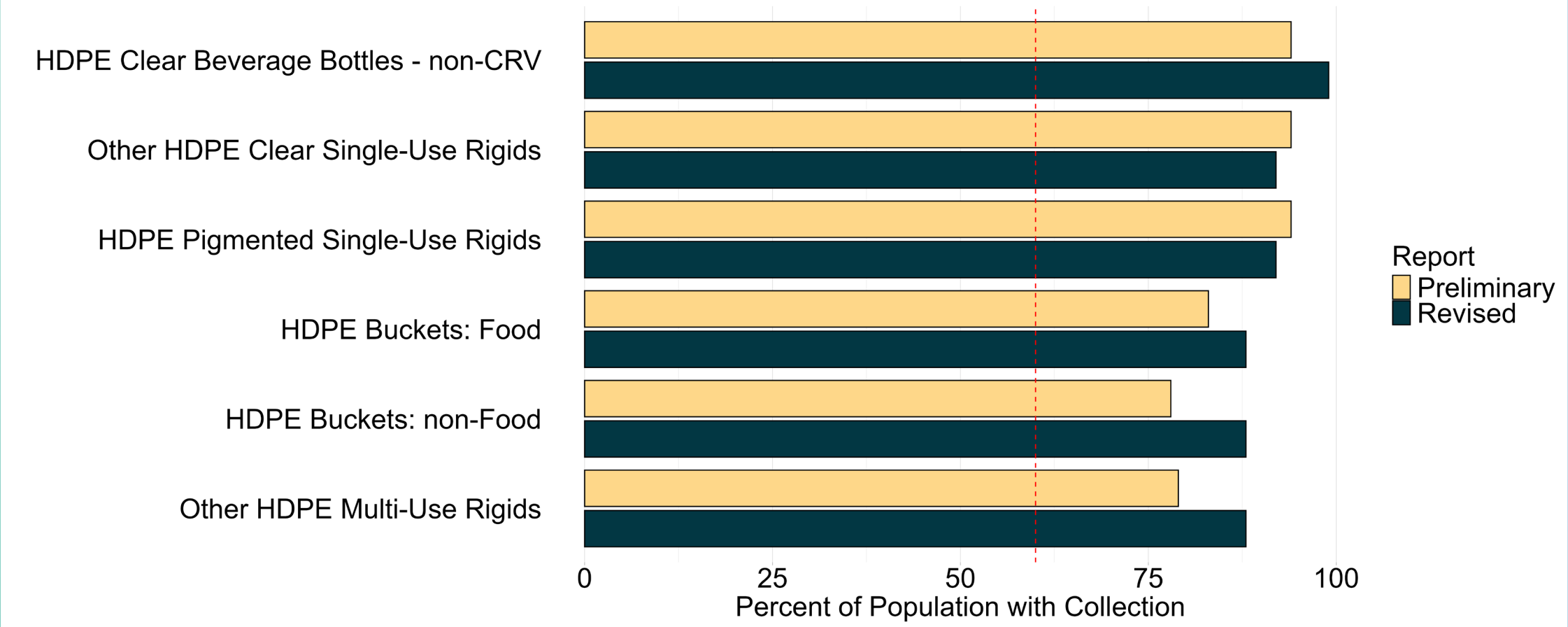
Collection by Jurisdictions: Paper and Fiber (2 of 2)



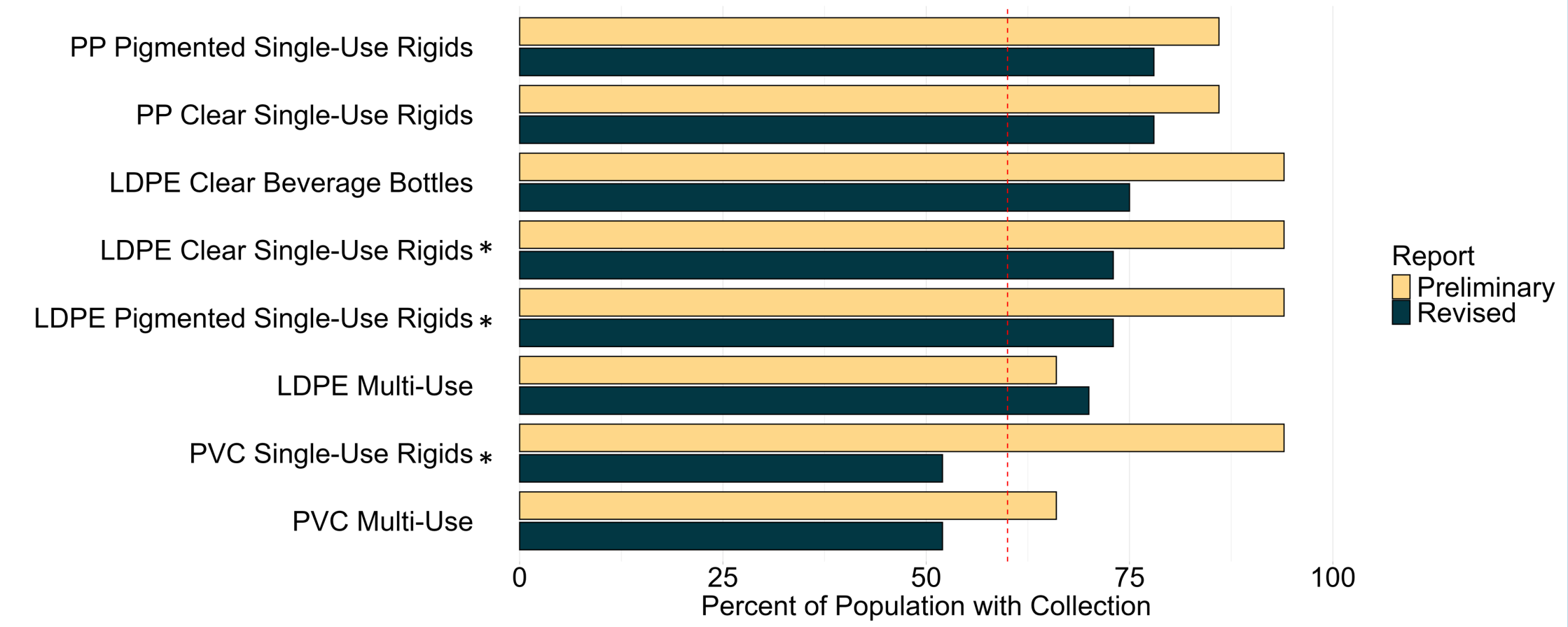
Collection by Jurisdictions: PET Plastic



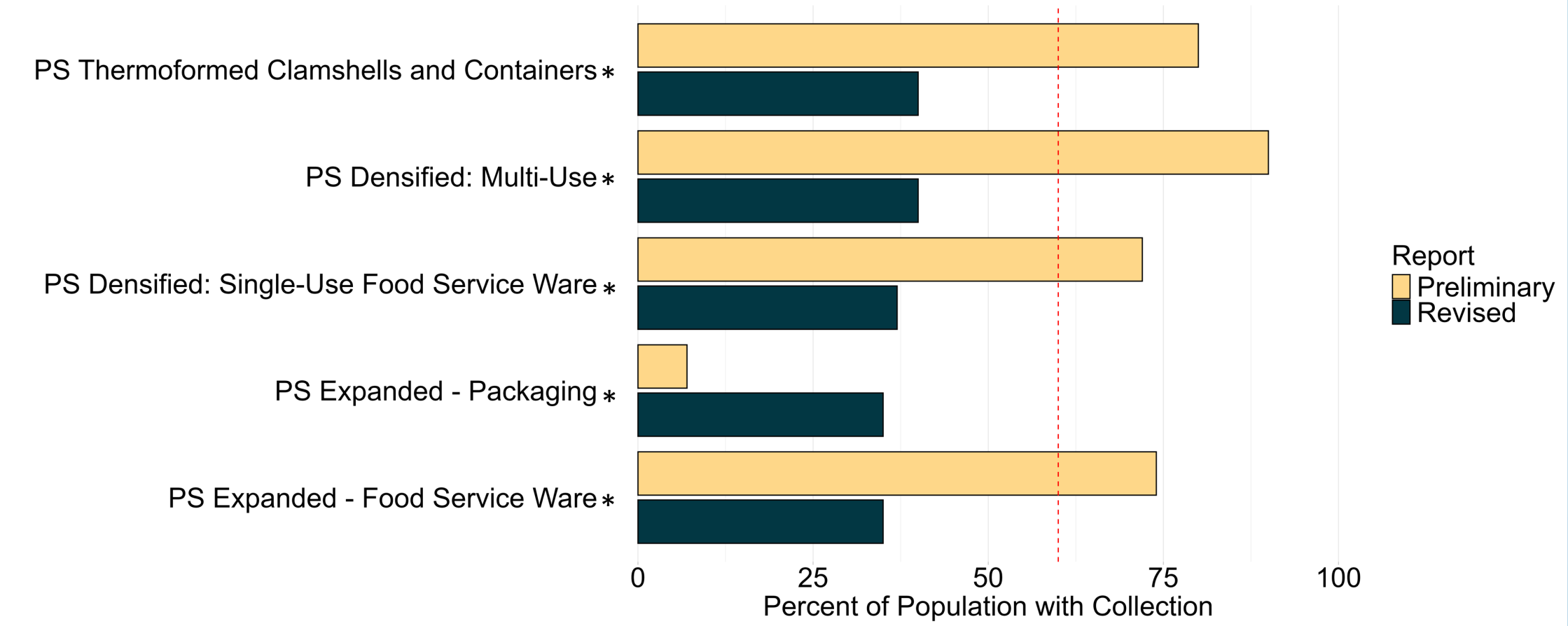
Collection by Jurisdictions: HDPE Plastic



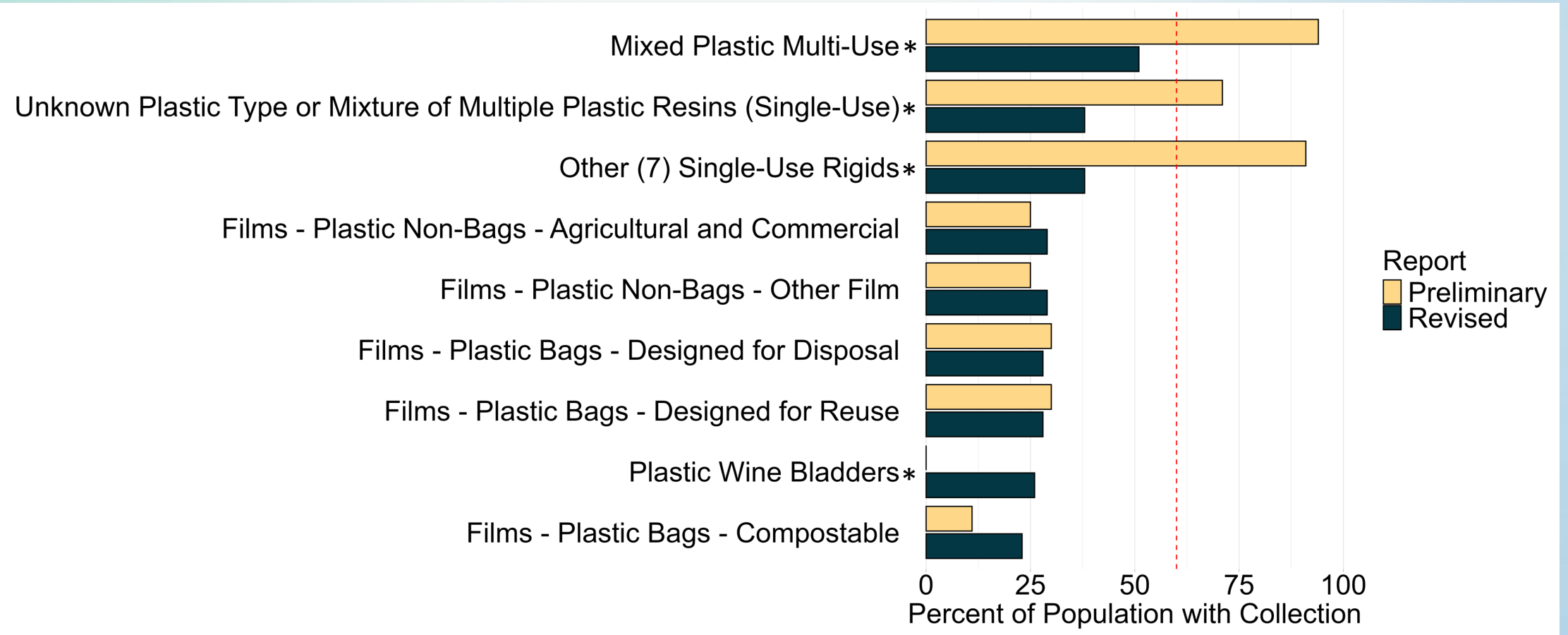
Collection by Jurisdictions: PP, LVPE, & PVC Plastic



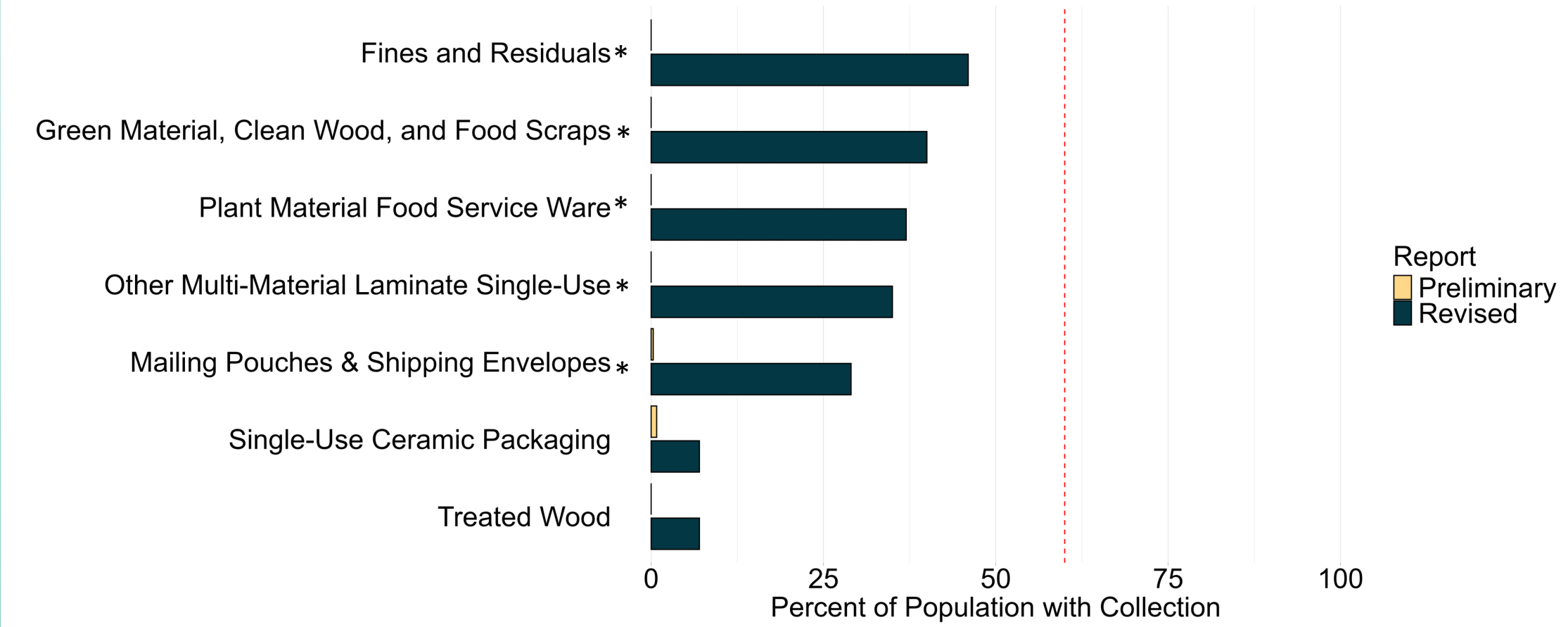
Collection by Jurisdictions: PS Plastic



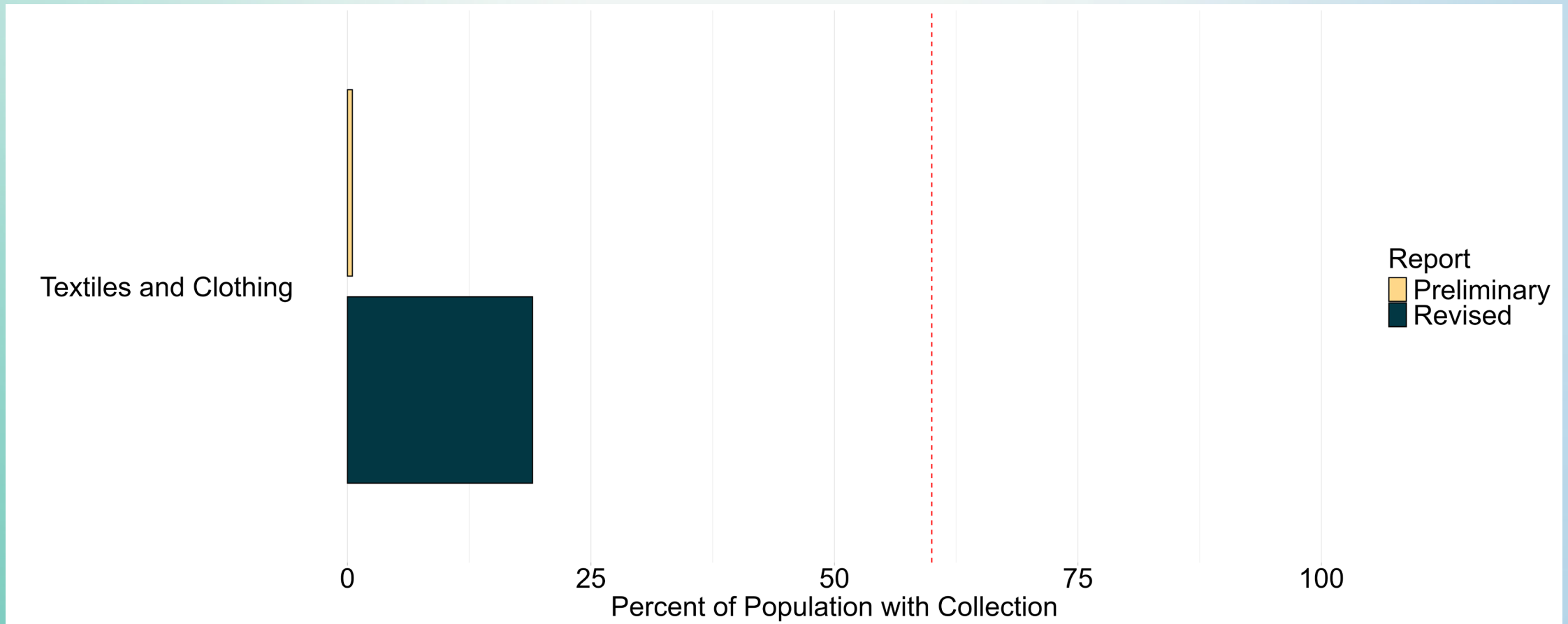
Collection by Jurisdictions: Other Plastic



Collection by Jurisdictions: Mixed Materials



Collection by Jurisdictions: Textiles and Clothing



Part III. Large Volume Transfer/Processor (LVTP) Survey and Sampling – Methodology and Revised Preliminary Findings

**Department of Resources Recycling and Recovery,
Knowledge Integration Section**

Nik Soltis
Environmental Scientist

Overview – LVTP Surveys

- Initial list of 50 permitted Large Volume Transfer/Processing Facility (LVTPs) with average quarterly potential reuse (AQPR) outflows of over 4,000 tons.
- CalRecycle conducted 2 types of surveys:
 - Initial phone survey
 - In-person survey
- In total:
 - 37 phone surveys conducted
 - 24 in-person surveys conducted

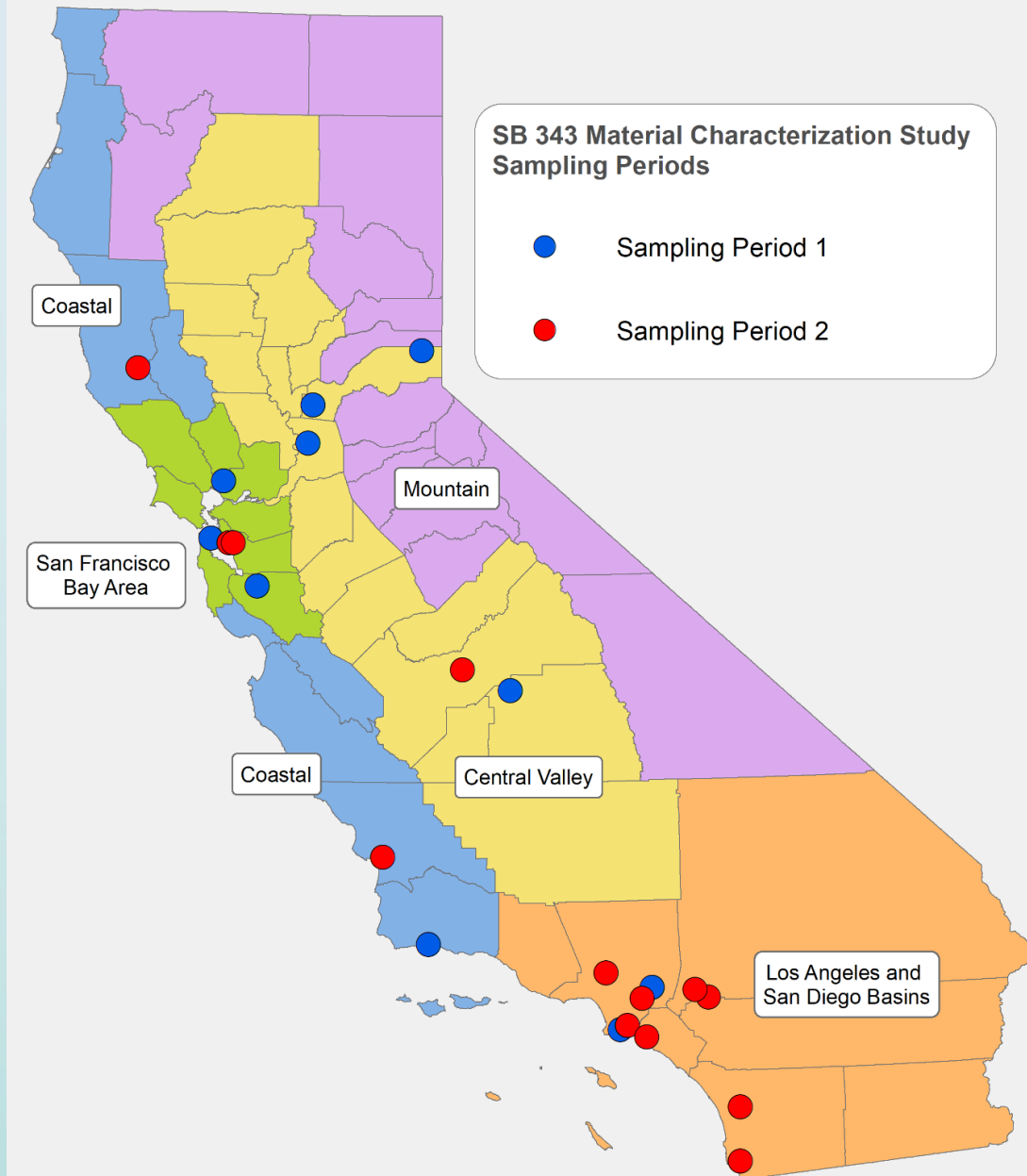
LVTP Surveys

- Phone survey collected basic information such as:
 - Capacity & Inflows
 - Sectors & Types of Materials Received
 - Processing Technologies
 - Outflows
- In-person survey collected more detailed information such as:
 - Contamination
 - Bale Destinations
 - Origins of Processed Materials

Site Selection

- 23 facilities selected for sampling and sorting

Region	Facility Count
Coastal	3
Mountain	1
San Francisco Bay Area	5
Central Valley	4
Los Angeles and San Diego Basins	10

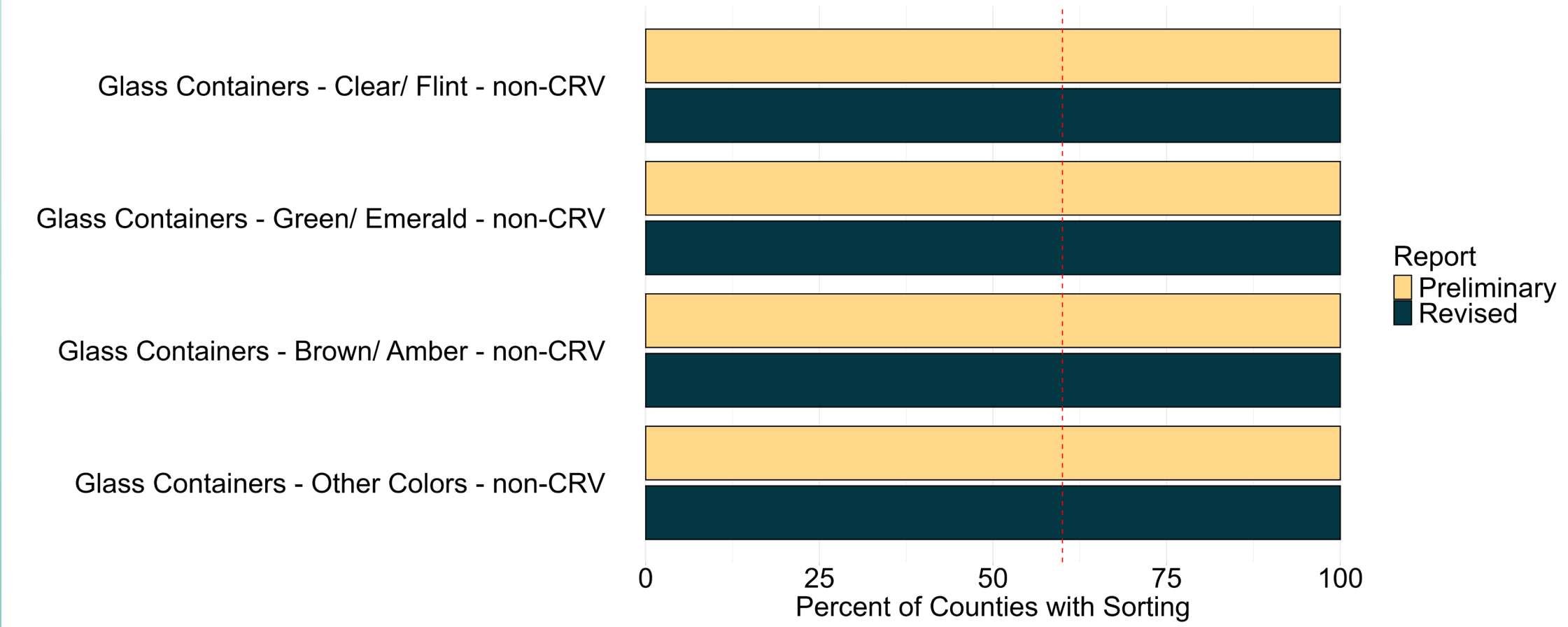


Field Sampling – MCS

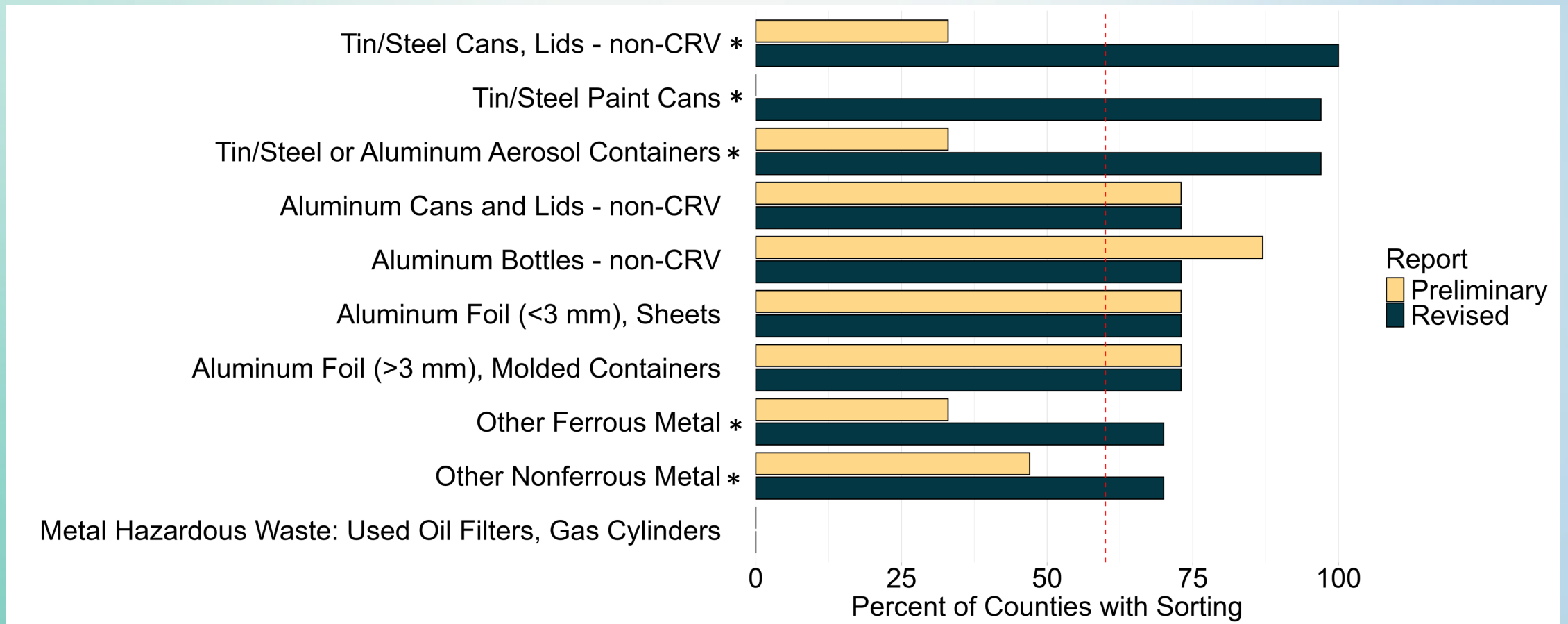
- Hand-sorted samples of recyclable outflows at LVTPs
- Visual characterization of outflows that could not be hand-sorted = *

Outflows Sampled	Outflows Sampled	
Fiber	<ul style="list-style-type: none"> • Corrugated Cardboard (OCC) • ONP and Mixed • White Office Paper* 	<ul style="list-style-type: none"> • Gable-top and Aseptic Carton • Shredded Paper*
Glass	<ul style="list-style-type: none"> • Brown/ Amber* • Green/ Emerald* • Mixed Glass 	<ul style="list-style-type: none"> • Clear/ Flint* • Fines*
Metal	<ul style="list-style-type: none"> • Aluminum – UBC* • Aluminum – Other • Copper* • Mixed Metal – Ferrous – Steel/ Tin Cans 	<ul style="list-style-type: none"> • Mixed Metal – Large • Mixed Metal – Non-Ferrous • Mixed Metal – Small • Mixed Metal – Small Ferrous
Plastic	<ul style="list-style-type: none"> • PET Bottle • PET Bottle & Container • PET Thermoform • HDPE Mixed Bottle & Container • HDPE Natural Bottle & Container • HDPE Pigmented Bottle & Container • HDPE Color + #3-#7 	<ul style="list-style-type: none"> • Mixed Rigid Plastic • Plastic #3-#7 • Polypropylene #5 • Expanded Polystyrene #6* • Plastic Film • Plastic Film – Agricultural & Commercial* • Plastic Film – Plastic Bags*

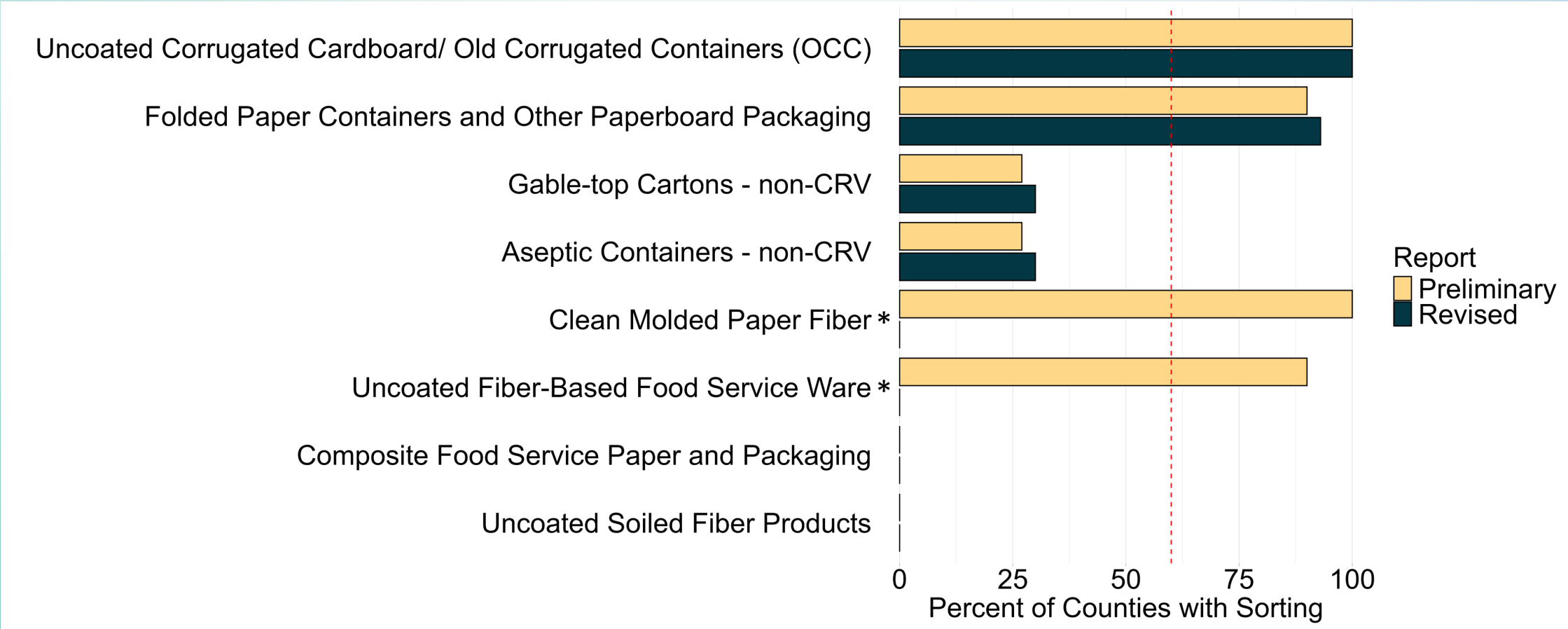
Recovery by LVTPs: Glass



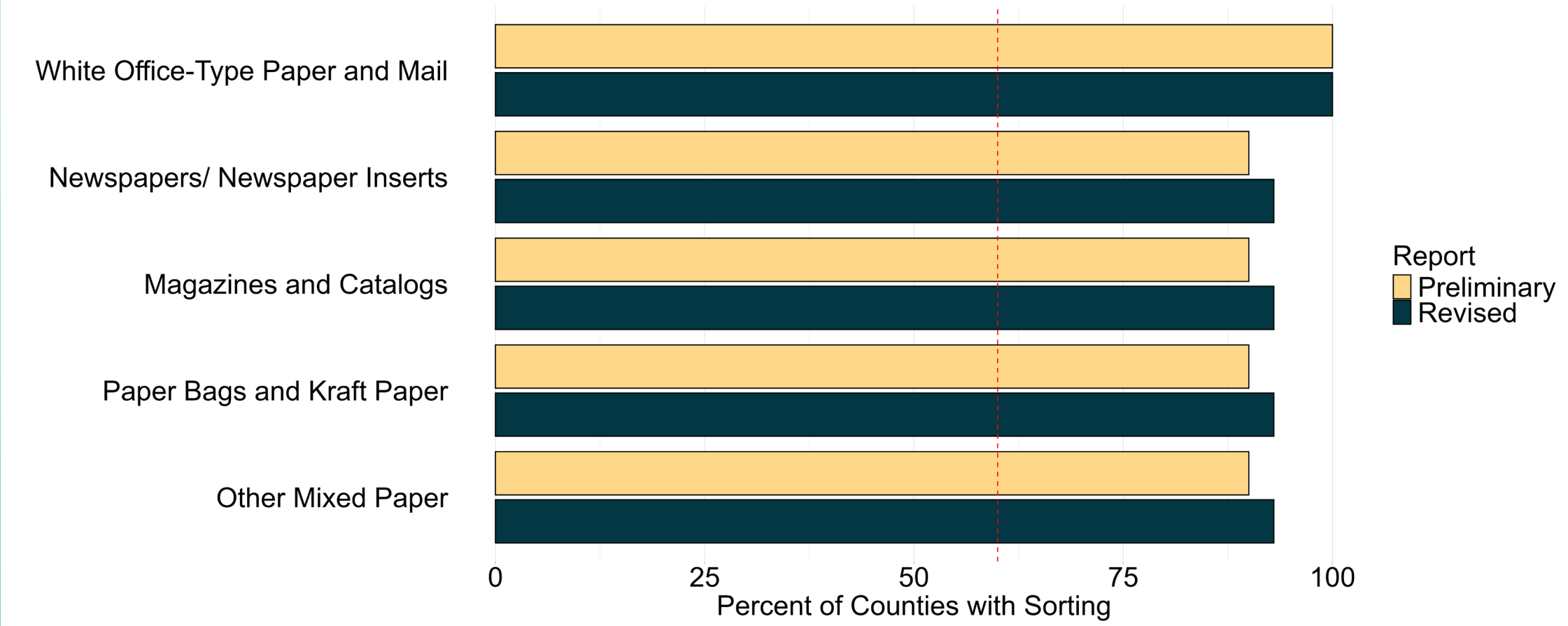
Recovery by LVTPs: Metal



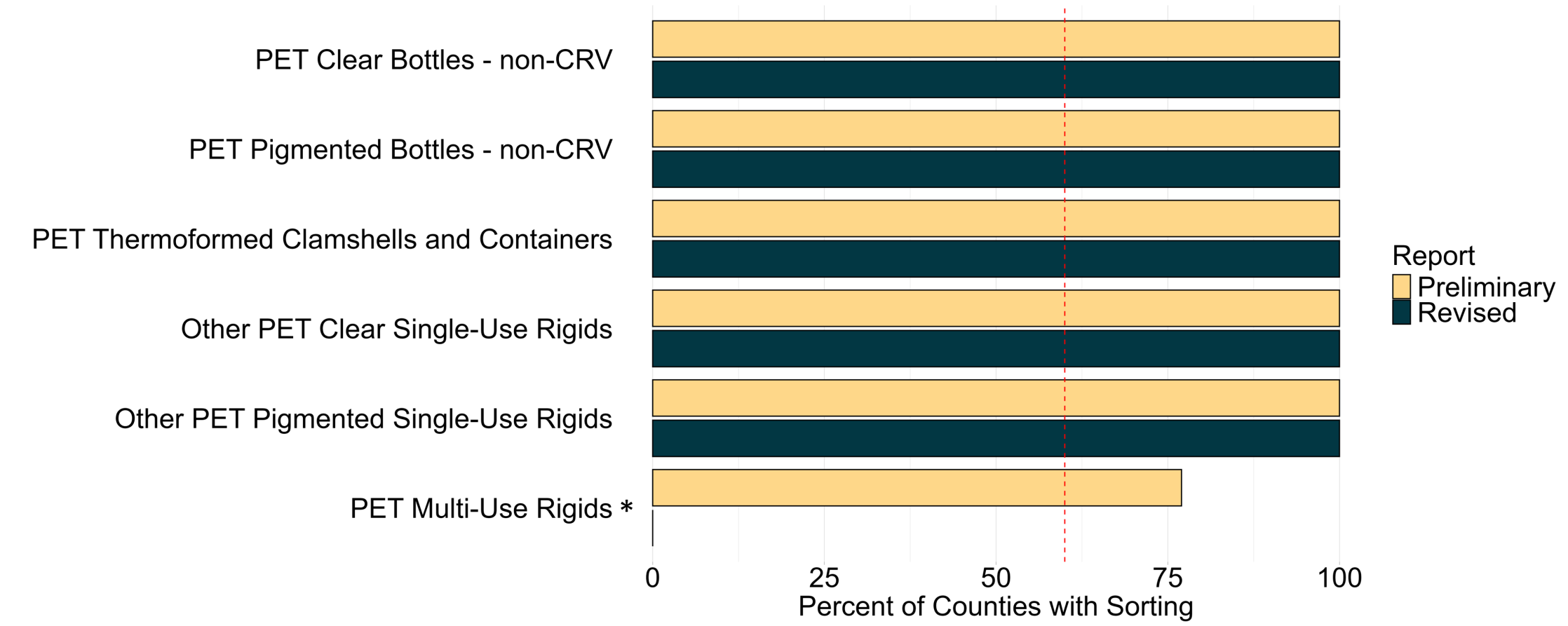
Recovery by LVTPs: Paper and Fiber (1 of 2)



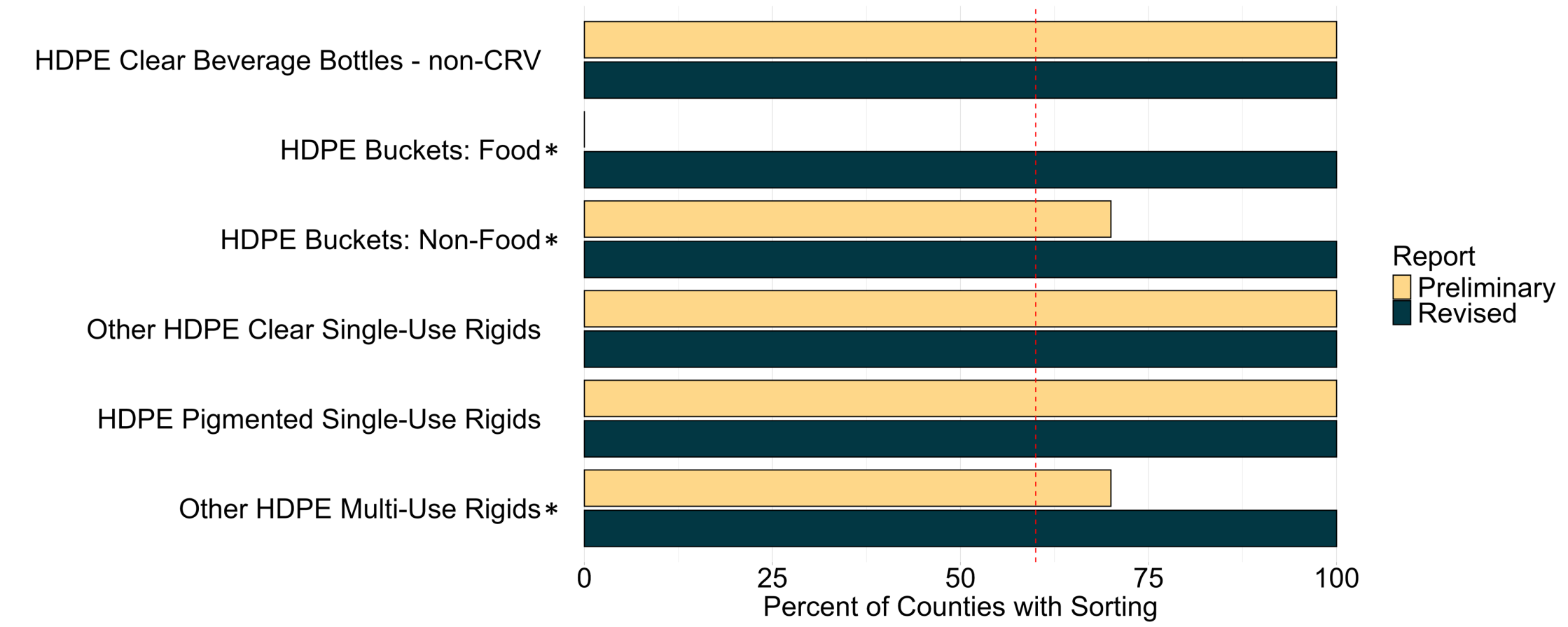
Recovery by LVTPs: Paper and Fiber (2 of 2)



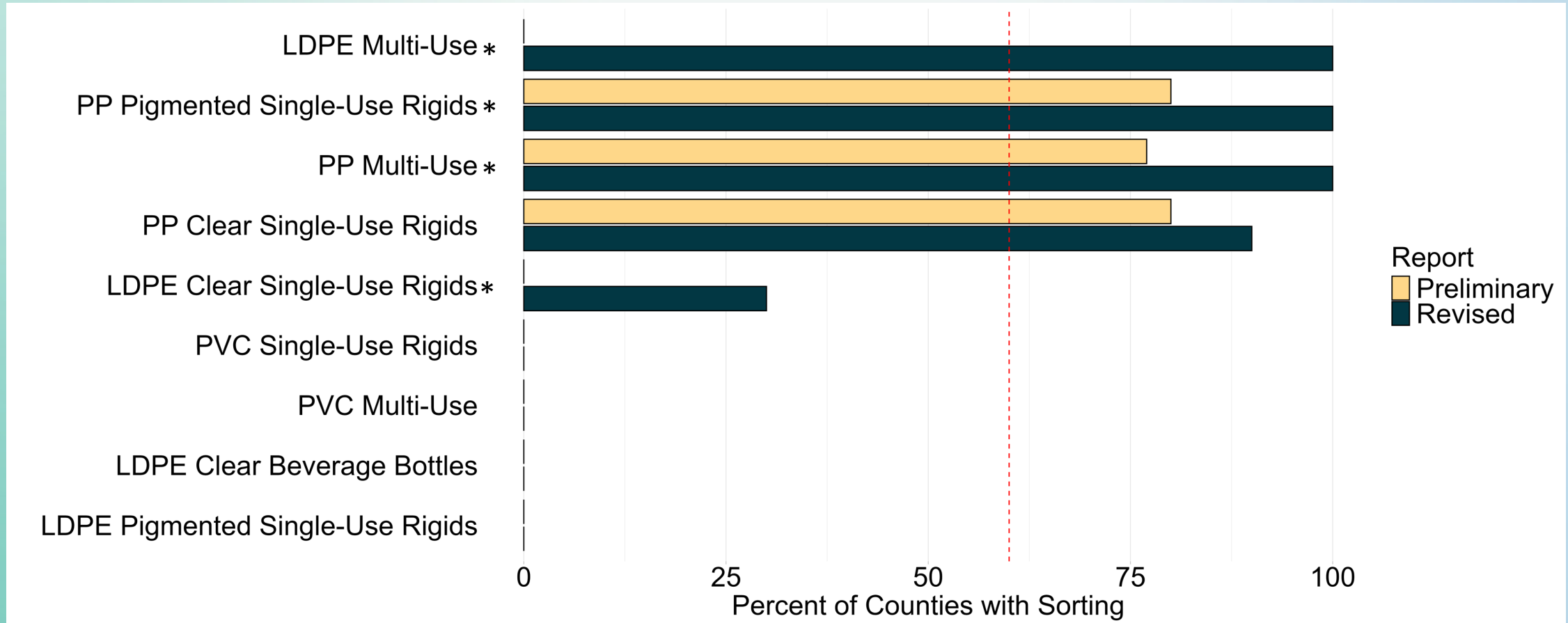
Recovery by LVTPs: PET Plastic



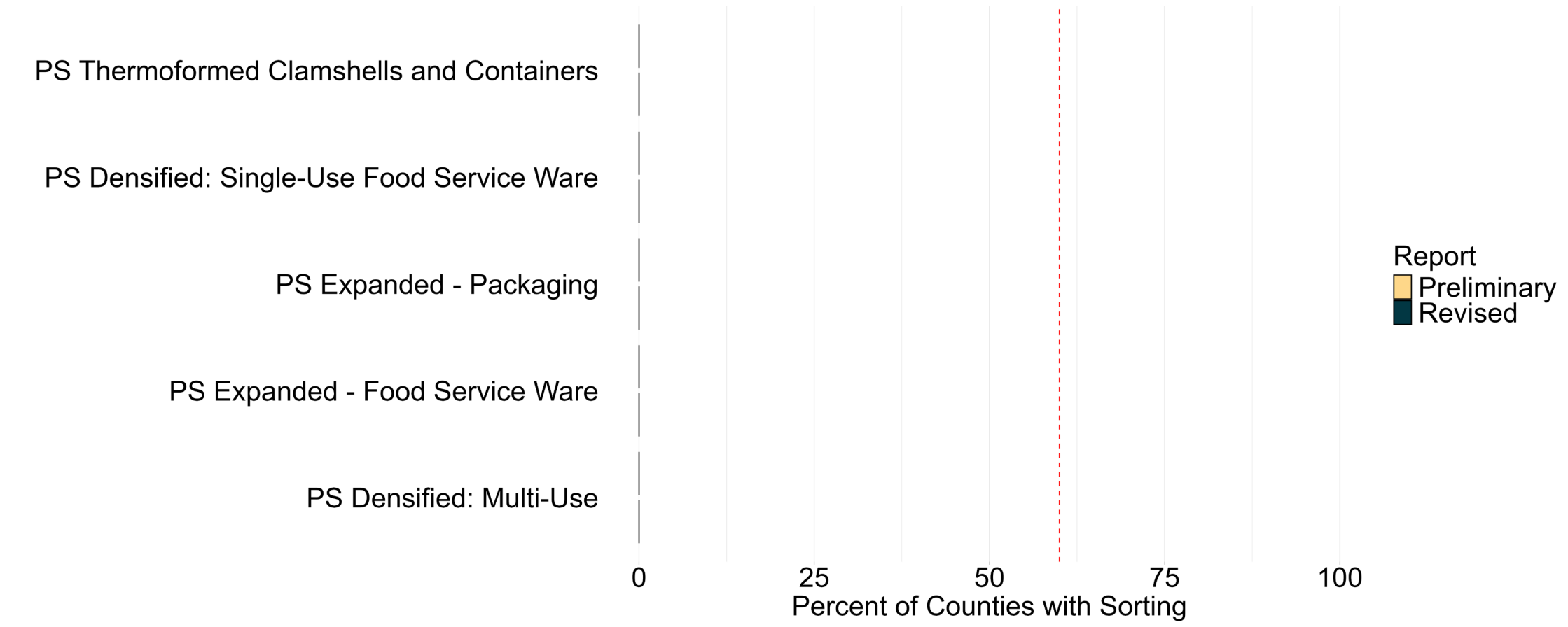
Recovery by LVTPs: HDPE Plastic



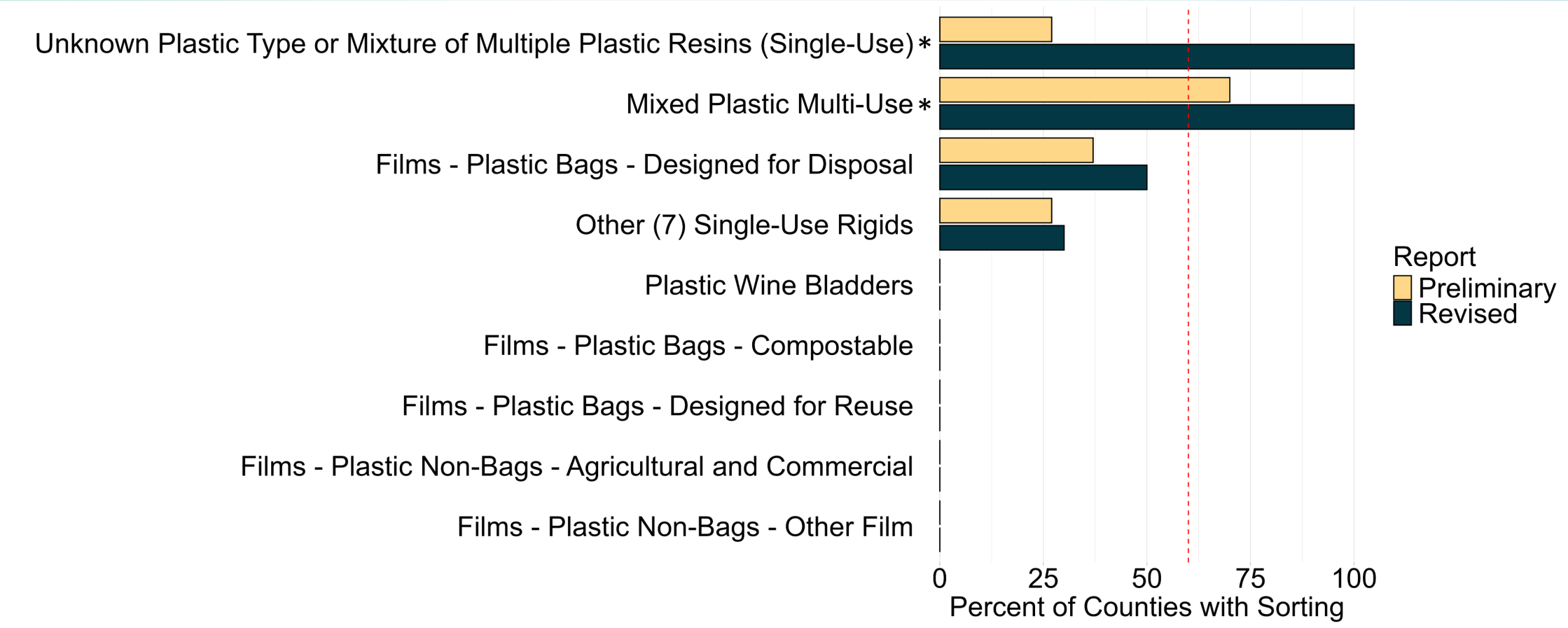
Recovery by LVTPs: LDPE, PP, & PVC Plastic



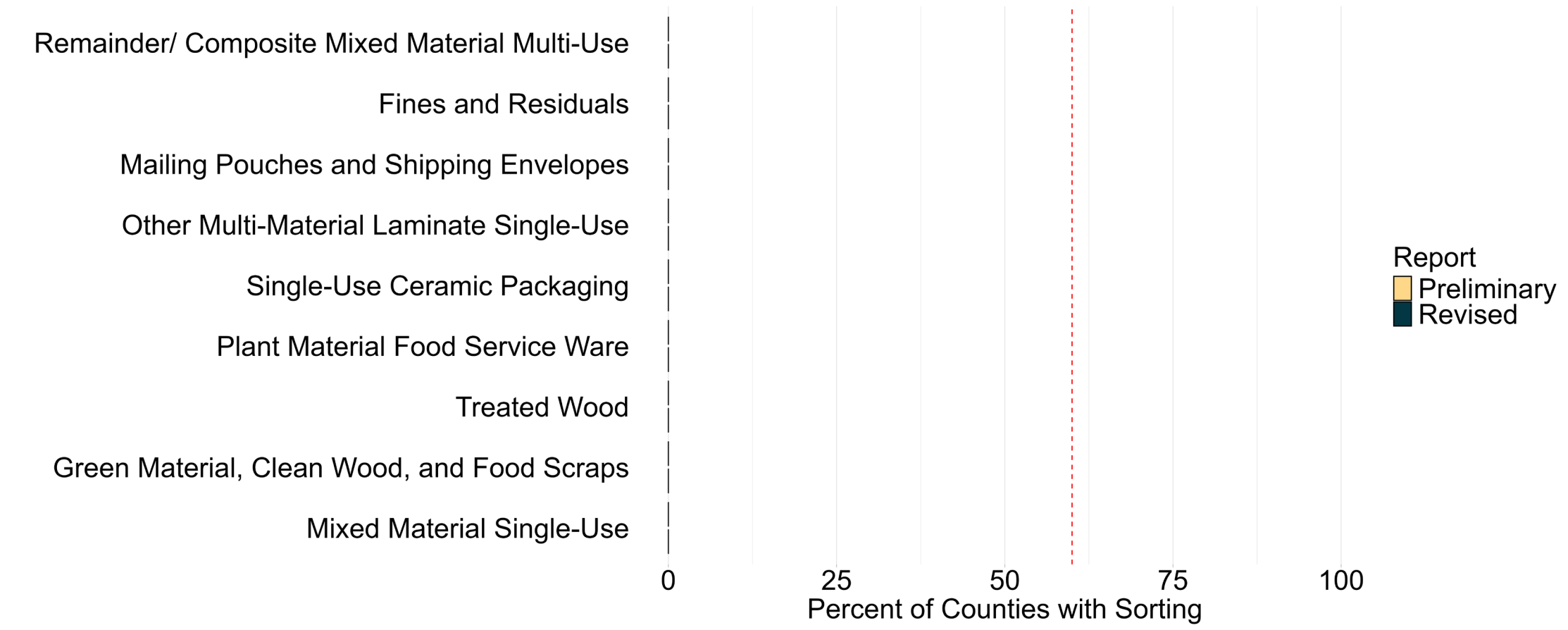
Recovery by LVTPs: PS Plastic



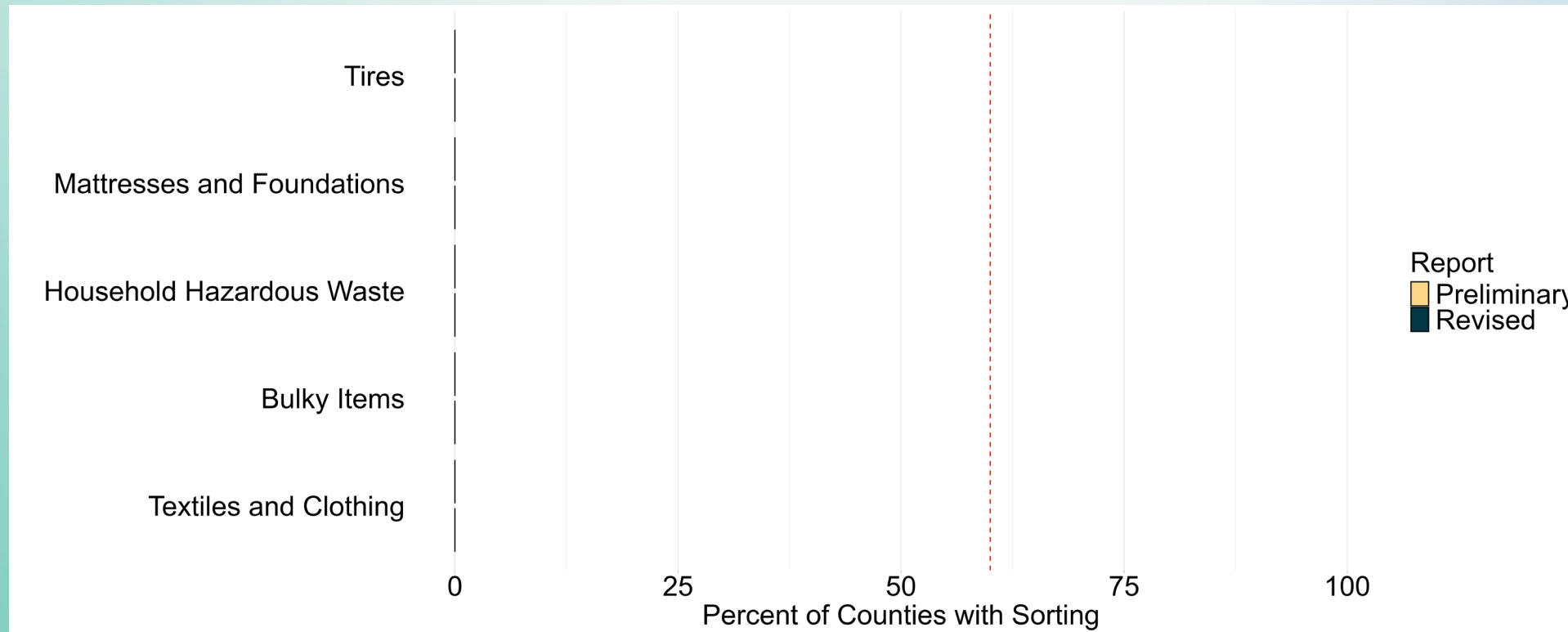
Recovery by LVTPs: Other Plastic



Recovery by LVTPs: Mixed



Recovery by LVTPs: Special Waste and Textiles



Part IV. Next Steps

**Department of Resources Recycling and Recovery,
Knowledge Integration Section**

Dan Brown

Environmental Program Manager II

Next Steps

- Public Comments
 - Written feedback may be submitted to wastechar@calrecycle.ca.gov with subject line “*SB 343 Revised Preliminary Findings*”.
 - Members of the public are requested to submit public comments, by **Tuesday February 18, 2024**
- Final publication of SB 343 Findings Report
- Next update to the SB 343 Material Characterization Study is required in 2027

Part V. Questions and Public Comments

**Department of Resources Recycling and Recovery,
Knowledge Integration Section**

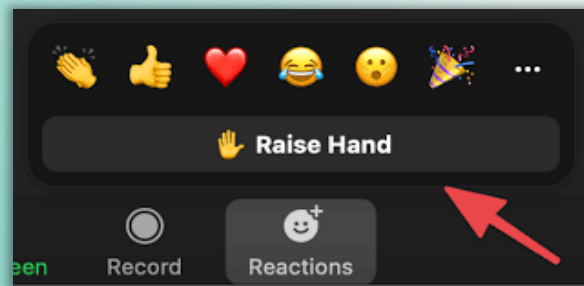
Moderator: Dan Brown

Environmental Program Manager II

CalRecycle Panel

Questions and Public Comments

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