Connecticut Bottle Bill
Modernization Stakeholder Dialogue

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Container Recycling Institute
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Return Rates in 38 Deposit Jurisdictions Around the World

- Total Return Rate
- Median

Jurisdiction:
- Croatia
- Denmark
- Estonia
- Finland
- Germany
- Iceland
- Lithuania
- Netherlands
- Norway
- Sweden
- California
- Connecticut
- Hawaii
- Iowa
- Maine
- Massachusetts
- Michigan
- New York
- Oregon
- Vermont
- Alberta
- British Columbia
- Manitoba
- Newfoundland and Labrador
- New Brunswick
- Northwest Territories
- Nova Scotia
- Ontario
- Prince Edward Island
- Quebec
- Saskatchewan
- Yukon
- Northern Territory
- South Australia
- Israel
- Kosrae (FSM)
- Kiribati
- Palau
Existing and new laws will serve more than 635 million people
U.S. Recycling Rates by Deposit Status, 2018

- **Deposit containers**
  - Aluminum cans: 77%
  - PET plastic bottles: 62%
  - Glass bottles: 64%

- **Non-deposit containers**
  - Aluminum cans: 41%
  - PET plastic bottles: 13%
  - Glass bottles: 12%

Source: "2018 Beverage Market Data Analysis," Container Recycling Institute, 2020. This graph is copyrighted, and is not to be shared, copied, or reproduced in any manner without written permission from CRI.

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Deposits drive up the overall U.S. beverage container recycling rate

More than half (50%) of all beverage containers recycled in the U.S. in 2017 came from the 10 bottle bill states—although they have only 29% of the US population.
## Percent of Beverage Units Covered by Deposit Program, 2018

<table>
<thead>
<tr>
<th>State</th>
<th>Beverage Units Covered by Deposit (%)</th>
<th>State</th>
<th>Beverage Units Covered by Deposit (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maine</td>
<td>91%</td>
<td>Connecticut</td>
<td>76%</td>
</tr>
<tr>
<td>Hawaii</td>
<td>87%</td>
<td>Iowa</td>
<td>64%</td>
</tr>
<tr>
<td>California</td>
<td>86%</td>
<td>Michigan</td>
<td>56%</td>
</tr>
<tr>
<td>Oregon</td>
<td>78%</td>
<td>Vermont</td>
<td>46%</td>
</tr>
<tr>
<td>New York</td>
<td>77%</td>
<td>Massachusetts</td>
<td>41%</td>
</tr>
</tbody>
</table>
### Handling Fees

- Of the states with handling fees, Iowa’s are the lowest.
- Other states have addressed this over time by gradually increasing the handling fee.

<table>
<thead>
<tr>
<th>State</th>
<th>Handling Fee Low</th>
<th>Handling Fee High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iowa</td>
<td></td>
<td>1¢</td>
</tr>
<tr>
<td>Connecticut</td>
<td>1.5¢</td>
<td>2¢</td>
</tr>
<tr>
<td>Hawaii</td>
<td>3.4¢</td>
<td>8.1¢</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>2.25¢</td>
<td>3.25¢</td>
</tr>
<tr>
<td>New York</td>
<td></td>
<td>3.5¢</td>
</tr>
<tr>
<td>Vermont</td>
<td>3.5¢</td>
<td>4¢</td>
</tr>
<tr>
<td>Maine</td>
<td>4¢</td>
<td>4.5¢</td>
</tr>
<tr>
<td>Michigan</td>
<td>No Handling Fee, No Redemption Centers</td>
<td></td>
</tr>
<tr>
<td>Oregon</td>
<td>No Handling Fee</td>
<td></td>
</tr>
<tr>
<td>California</td>
<td>Variety of system payments</td>
<td></td>
</tr>
<tr>
<td>State</td>
<td>Beer</td>
<td>Soda/Carbonated water</td>
</tr>
<tr>
<td>-------</td>
<td>------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>ME</td>
<td>5¢</td>
<td>5¢</td>
</tr>
<tr>
<td>OR</td>
<td>10¢</td>
<td>10¢</td>
</tr>
<tr>
<td>CA</td>
<td>5¢/10¢</td>
<td>5¢/10¢</td>
</tr>
<tr>
<td>HI</td>
<td>5¢</td>
<td>5¢</td>
</tr>
<tr>
<td>IA</td>
<td>5¢</td>
<td>5¢</td>
</tr>
<tr>
<td>MA</td>
<td>5¢</td>
<td>5¢</td>
</tr>
<tr>
<td>NY</td>
<td>5¢</td>
<td>5¢</td>
</tr>
<tr>
<td>CT</td>
<td>5¢</td>
<td>5¢</td>
</tr>
<tr>
<td>MI</td>
<td>10¢</td>
<td>10¢</td>
</tr>
<tr>
<td>VT</td>
<td>5¢</td>
<td>5¢</td>
</tr>
</tbody>
</table>
States with higher deposit values have higher redemption rates: **2018**

- Connecticut (5¢): 50%
- Massachusetts (5¢): 52%
- Iowa (5¢): 65%
- New York (5¢): 64%
- Hawaii (5¢): 65%
- California (mixed): 66%
- Vermont (mixed): 75%
- Oregon (10¢): 81%
- Maine (mixed): 84%
- Michigan (10¢): 89%

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States with higher deposit values have higher redemption rates: 2019

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States with higher deposit values have higher redemption rates: 2020

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Weight of Beverage Containers, U.S. Generation

- Glass Bottles, 69%
- HDPE, 5%
- Aluminum Cans, 8%
- PET, 16%
- Gable-top Cartons, 2%
- Aseptic Boxes, 0.40%
- Foil Pouches, 0.10%
<table>
<thead>
<tr>
<th>U.S. Deposit tons recycled vs. total beverage tons recycled, 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>All beverage sales</td>
</tr>
<tr>
<td>Deposit beverage sales</td>
</tr>
<tr>
<td>All beverage recycling tons</td>
</tr>
<tr>
<td>All beverage recycling rate</td>
</tr>
<tr>
<td>Tons redeemed</td>
</tr>
<tr>
<td>Redemption rate</td>
</tr>
<tr>
<td>Tons redeemed as a proportion of all beverage recycling tons</td>
</tr>
</tbody>
</table>

Glass: Deposit vs. Single Stream
Glass Fines and Residue Rates

- Single Stream
- Dual Stream
- Container Deposit

Combination of Fines and Non-glass Residue (NGR) to Landfill

Undersize for Road Bed, Aggregate and Landfill Daily Cover

Recycled into Containers and Fiberglass
Collecting glass: Recommendations

Drop-off points

- 1 per 20,000 residents
- Easily accessible
- Visible

www.rippleglass.com
## Comparison of Glass Collected for Recycling

| QUANTITY OF GLASS COLLECTED THROUGH VARIOUS METHODS, POUNDS PER CAPITA |
|---------------------------------------------------|---------------|---------------|---------------|---------------|
| | Glass-only drop-off | Single-Stream Curbside | Glass-only Curbside | Deposit-refund | Total |
| Ripple System, Kansas City area | 18 | | | | 18 |
| Fayetteville, Arkansas | | 33 | | | 33 |
| Oregon, statewide | | 23 | 31 | | 54 |
| Leeds, U.K. | 28 | | | | 28 |
| EU - various, outliers excluded | | | | | 55-77 |
| California, statewide | | 14 | | 32 | 46 |

EU Countries use multiple types of collection methods.
Thank You!

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