

# OR EPR Impacts on Environment, Farmers, & Food Prices

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# Berry Clamshell is Currently the Most Sustainable Package for Highly Perishable Produce

Made from the most recycled plastic in the world - PET

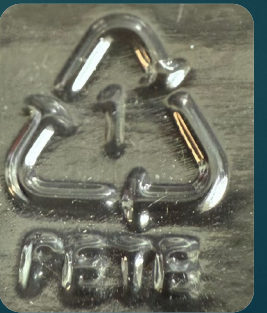
Commonly Exceeds 50% Post Consumer Recycled Content

100% Recyclable – Association of Plastic Recyclers Guidelines

Recycled Using the Same Technology to Recycle PET Beverage Containers

Best Option to Meet Functional Requirements:

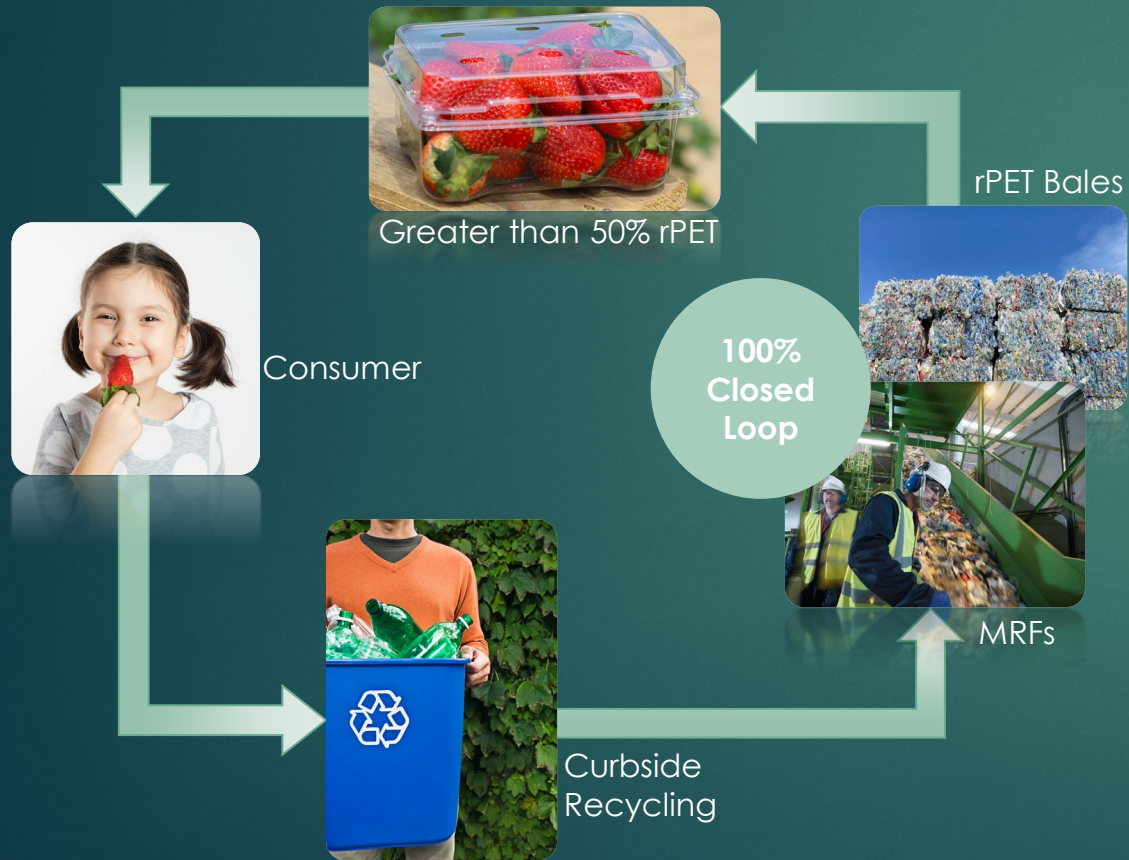
- Single use packaging is required by Federal Food Safety Law
- Safest Food Contact Surface
- Best for Protecting the Fruit from Damage and Food Waste
- Lowest GHG Impacts from Transportation
- Durability for field packing





# Environmental Tradeoffs

## Plastic PET clamshell



## Paper/Fiber clamshell

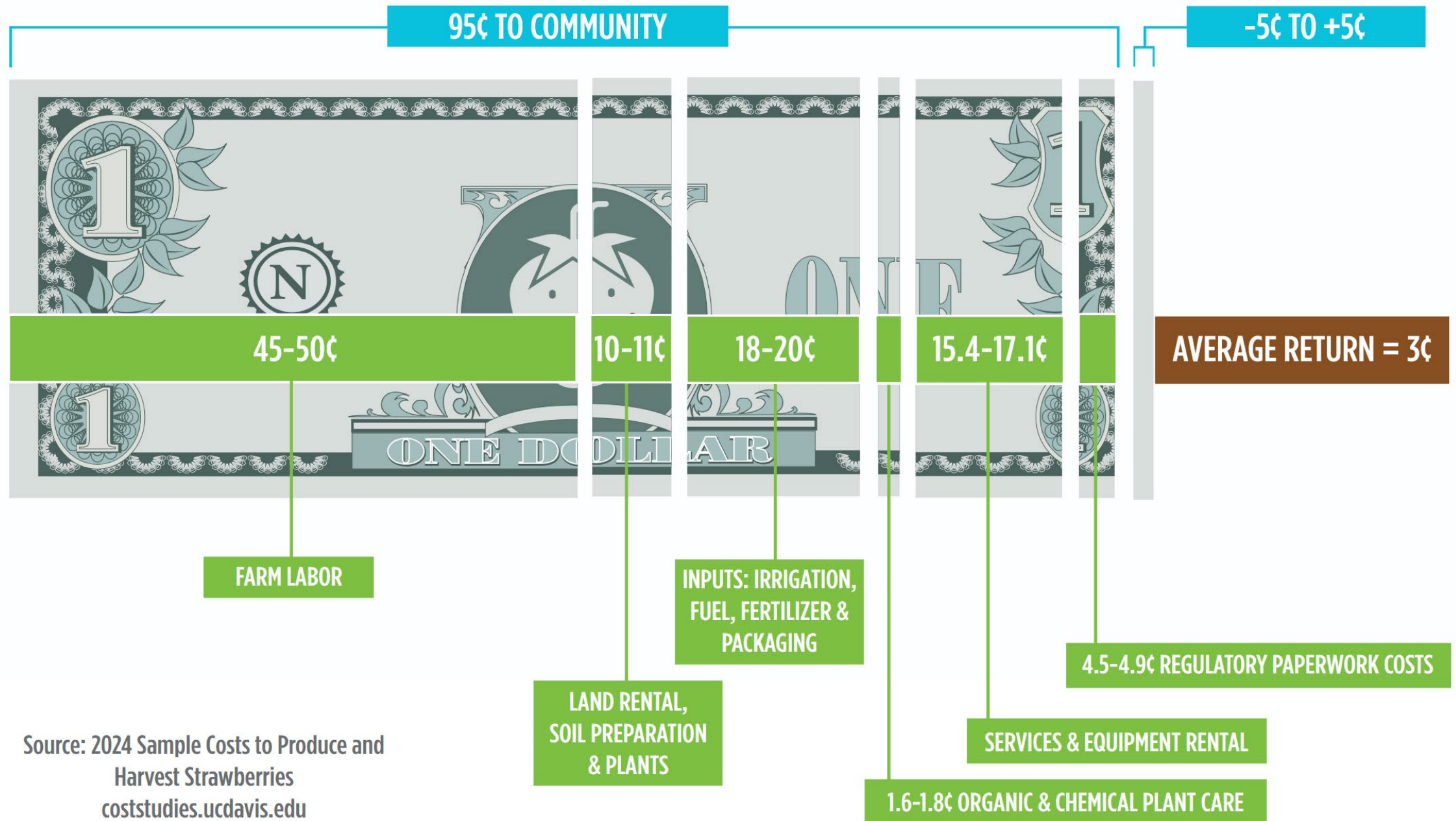




# Conflicts with National and International Standards

- ▶ FDA rule\* food packaging and material must;  
*“(a) Use food-packing material that is adequate for its intended use, which include being:  
(1) Cleanable (for reuse) or designed for **single use**; and  
(2) Unlikely to support growth or transfer of bacteria.”*
- ▶ Canada - After learning more about the benefits of berry clamshells and its contributions to food safety and national food security, Canada paused the ban on plastic PET clamshells  
*“A much different picture emerged in relation to product protection functions. A direct correlation exists between the importance of packaging functions related to product protection and products’ perishability. The increased importance of these packaging functions extends across the value chain.”*
- ▶ France - Permanently exempted 29 fruits and vegetables from its EPR program  
*“This French decree is an implementation of the Anti-waste and Circular Economy (Agec) law which... provides exemptions for “fruits and vegetables presenting a risk of deterioration when sold in bulk.”*

\* Section 112.116 of 21 CFR under “Growing, Harvesting, Packing, and Holding Activities”





# Summary

- ▶ Average return to farmer - 3% (\$0.03 cents/\$1.00)
- ▶ OR EPR “low” fees range from 1.06-3.45%
- ▶ OR EPR “high” fees range from 1.40-4.54%
- ▶ One-third to over 100% of farmer returns are consumed by OR EPR fees

# Consequences

- ▶ Food prices will increase
- ▶ Increased imports from elsewhere that have less regulations and sustainability standards and increase greenhouse gases due to increased fuel use from longer transportation distances
- ▶ CA has exclusionary language for the strawberry plastic PET clamshell to meet USDA and FDA standards for structural integrity and food safety

# Cost Impact Reference Slides

(slides 8-12)



# Understanding of Economic Impacts are Evolving as OR EPR is Implemented

- ▶ CSC Comment Letter to the Oregon DEQ dated April 11, 2025;

“Since the Act exempts some producers, including all non-U.S. companies, the cost impact of the DEQ described fee allocation on fresh produce packaging **may** exceed the profit margin for some farmers. In such circumstances, farmers will have no option but to pass those costs forward to the buyer.”

- ▶ Since then, with publication of fees and invoices sent July 1, 2025, this comment can be revised to;

“Since the Act exempts some producers, including all non-U.S. companies, the cost impact of the DEQ described fee allocation on fresh produce packaging **will** exceed the profit margin for some farmers. In such circumstances, farmers will have no option but to pass those costs forward to the buyer.”





# Estimated OR EPR Fees (Pre-July 1, 2025)

## Oregon EPR Implementation Costs

Possible Berry Pallet Packaging (based on 120 8-1lb. trays per pallet)						
Material		Actual Weights Vary (lbs.)	Low Fee	High Fee	Total Cost - Low	Total Cost - High
	Clamshell	55.35	\$ 0.55	\$ 0.74	\$ 30.44	\$ 40.96
	Tray	89.08	\$ 0.03	\$ 0.03	\$ 2.67	\$ 2.67
Cardboard						
	Pallet Tie Sheet	4.27	\$ 0.03	\$ 0.03	\$ 0.13	\$ 0.13
	Pallet Cap	1.57	\$ 0.03	\$ 0.03	\$ 0.05	\$ 0.05
LDPE						
	Pallet Bag	2.00	\$ 0.54	\$ 0.72	\$ 1.08	\$ 1.44
	Pallet Wrap	1.00	\$ 0.54	\$ 0.72	\$ 0.54	\$ 0.72
Total per Pallet		153.27			\$ 34.91	\$ 45.97
Total per Tray		1.28			\$ 0.29	\$ 0.38

# Current OR EPR Fees (tertiary packaging was excluded)

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Total per Pallet		153.27			\$ 34.91	\$ 45.97
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## Fees “low” as a Result of Cost - \$33.11/pallet

	Price/Tray Conventional (\$)*	Price/Tray Organic (\$)*	Per pallet Conventional (\$)#	Per pallet Organic (\$)#	OR EPR Low Fees Percentage Conventional	OR EPR Low Fees Packaging Percentage Organic
Average price 10/14/2025	18	26	2160	3120	1.53%	1.06%
Average price 6/2/2025	8	12	960	1440	3.45%	2.30%
Average price 8/4/2025	8.5	11	1020	1320	3.25%	2.51%
Annual 2024	11.02	20.2	1322.4	2424	2.50%	1.37%

## Fees “high” as a Result of Cost - \$43.63/pallet

	Price/Tray Conventional (\$)*	Price/Tray Organic (\$)*	Per pallet Conventional (\$)#	Per pallet Organic (\$)#	OR EPR High Fees Percentage Conventional	OR EPR High Fees Packaging Percentage Organic
Average price 10/14/2025	18	26	2160	3120	2.02%	1.40%
Average price 6/2/2025	8	12	960	1440	4.54%	3.03%
Average price 8/4/2025	8.5	11	1020	1320	4.28%	3.31%
Annual 2024	11.02	20.2	1322.4	2424	3.30%	1.80%

# 120 trays per pallet.

\*Daily Report is generated from data compiled by the USDA Agricultural Marketing Service which is available publicly on the USDA Fruit and Vegetable Market News website <https://www.marketnews.usda.gov/mnp/fv-home>.

# University of California Davis report (March 2024)

Bolda et al.<sup>1</sup> UC Davis 2024 study. Table 4. Range Analysis (page 17)

- ▶ Yield and strawberry tray price determine net returns
- ▶ Yields must be over 7,000 trays/acre and \$14/tray to have net positive return
- ▶ Yield must be over 11,000 trays/acre and \$12/tray to be net positive with returns
- ▶ In 2024, production was 6047 trays/acre and \$11/tray. Large losses!