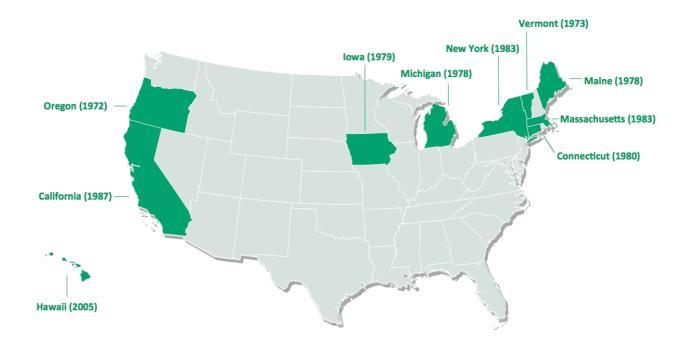






(88.6 million have access to DRS)



Sta	ite	Population (million)	Mandate Enacted	Mandate Implemented
1.	California	38.8	1986	1987
2.	Connecticut	3.6	1978	1980, 2009 (Water)
3.	Hawaii	1.3	2002	2005
4.	lowa	3.1	1978	1979
5.	Maine	1.3	1976	1978
6.	Massachusetts	6.6	1981	1983
7.	Michigan	9.9	1976	1978
8.	New York	19.5	1982	1983, 2009 (Water)
9.	Oregon	3.9	1971	1972
10.	Vermont	0.6	1972	1973









Population: 38m

Website: www.calrecycle.ca.gov/bevcontainer/



MANDATE

California Beverage Container Re Enacted: Implemented: Last Updated: Authority: Target:

ecycling and Litt	er Reduction Act
1980	ô
198	7
2012	2 (Enforcement & Payments)
Dep	artment of Conservation (CalRecycle)
80%	Recycling Rate

PROGRAM SCOPE

Material:	Plastic, metal (aluminum), bimetal, glass
Beverage type:	Beer; malt; wine and distilled spirits; all non-alcoholic beverages
Excluded:	Milk; 100% fruit juice ≥46 oz.; vegetable juice ≥16 oz; refillables

DEPOSITS AND FEES

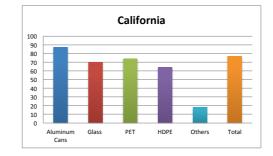
Deposit:	Initiated by Producer/Distributor/Importer	
Deposit value:	Containers < 24oz: USD \$0.05	
	Containers ≥ 24oz: USD \$0.10	
Unredeemed deposits:	Escheated to state, used for program administration	
omedeemed deposits.	Escheated to state, used for program administration	
Handling fee:	Paid to the operators of supermarket redemption sites to help	
5	cover the costs of operating the redemption system	
Processing Fee (PF):	Paid by beverage manufacturers to the Department of	
	Conservation, per container sold	
Processing Payments:	Made to all certified recyclers and processors (by the Department)	
	when the cost of recycling exceeds the value of material,	
	per ton redeemed	
SYSTEM OPERATOR		
Clearing System:	Centralized	
System Operator & Administrator:	CalRecycle (Government Operated)	
	· ·	

REDEMPTION SYSTEM

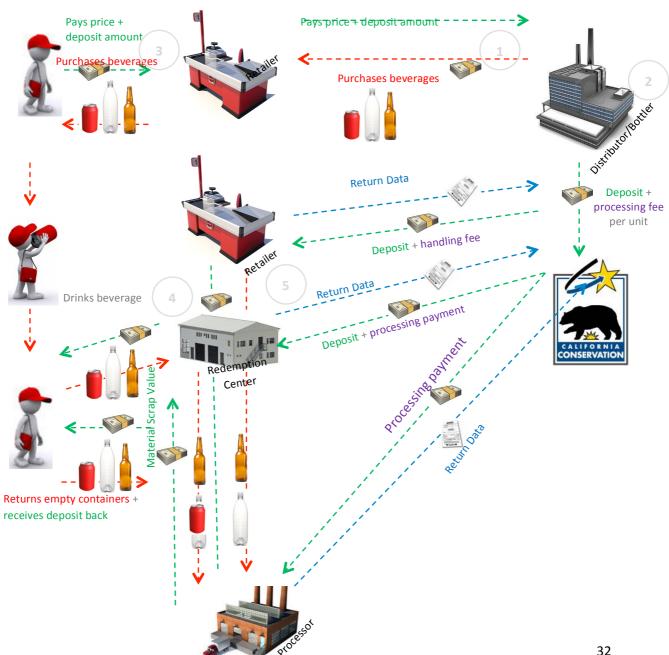
Return-to-Retail (25%)	Return-to-retail obligation with opt-out if certified recycling center is located in a Convenience Zone (CZ); non-handling fee reycycling
Return to certified recycler (55%-65%)	centers; curbside/drop-off recycling programs. CRV may be
"Donate" to Curbside (15%-20%)	calculated by weight. 2,578 Recycling Centers (2012), 1,376 of which are CZ recyclers.
Material owner:	Processor, Curbside



Total Return Rate:	77%*
Aluminum	87%
Glass	70%
PET	74%
HDPE	64%
Others	18%



*Curbside included in redemption rate







Population: 3.6m

Website: www.ct.gov/deep/cwp/view.asp?a=2714&q=324834

MANDATE

Beverage Container Deposit and Redemption Law		
Water added)		
ment of Energy and Environmental Protection		
,		

PROGRAM SCOPE

Material:	Plastic, metal (aluminum), glass (any individual, separate, sealed bottle, can, jar or carton containing a beverage <3I)
Beverage type:	Beer; malt; carbonated soft drinks (including mineral waters and soda waters); noncarbonated beverages (water, including flavored water, nutritionally enhanced water)
Excluded:	Other noncarbonated beverages; juices; HDPE containers
DEPOSITS AND FEES	
Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	Plastic, metal, glass: USD\$0.05
Unredeemed deposits:	Escheated to State
Handling Fee:	USD\$0.015 for beer, USD\$0.02 other beverages

SYSTEM OPERATOR

Clearing System:	Decentralized, TOMRA	
System Operator & Administrator:	Beverage Industry	

REDEMPTION SYSTEM

Return-to-Retail /	
Return to Redemption Center	Stores are only required to take back the brands that they sell.

Material owner:

Deposit Initiator

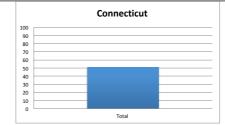






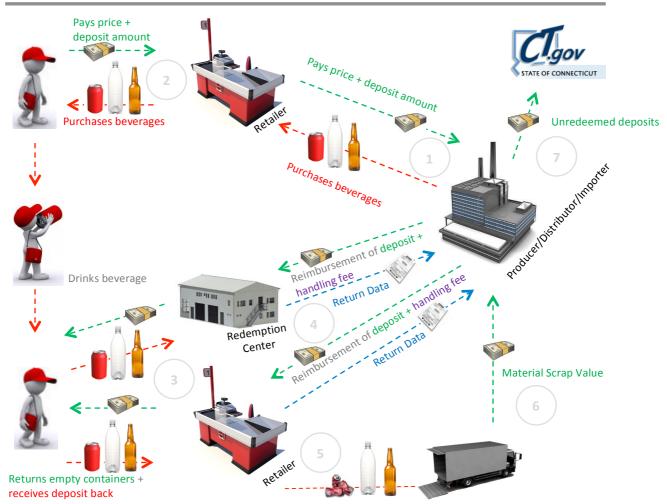


Return Rate:



Before water bottles were added to the deposit system in 2009, redemption rates were higher (in the range of 65-70%).

50.7%









Population: 1.3m

Website: http://health.hawaii.gov/hi5/



MANDATE

Deposit Beverage Container Law (Act 176)	
Enacted:	2002
Implemented:	2005
Last Updated:	2013 (Energy Drinks & Dietary Supplements)
Authority:	Department of Health

PROGRAM SCOPE

Material:	Plastic (PET, HDPE); metal (aluminum); bi-metal; glass ≤ 2I
Beverage type:	Beer; malt beverages; mixed spirits (< 15% alcohol content); mixed wine (< 7% alcohol content); all non-alcoholic beverages (e.g. juice, tea, etc.)
Excluded:	Milk; dairy products
DEPOSITS AND FEES	
Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	USD\$0.05
Unredeemed deposits:	Escheated to state, used for program administration
Handling Fee:	USD\$0.02 to \$0.04 (variable). Paid to redemption centers from the Deposit Beverage Container Fund.
Container Fee:	USD\$0.015 non-refundable fee paid by consumer on top of the deposit to fund redemption centers
SYSTEM OPERATOR	
Clearing System: System Operator & Administrator:	Centralized Department of Health (Government Operated)

REDEMPTION SYSTEM

Return to Redemption Center

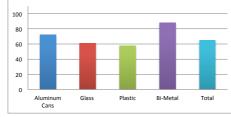
Persons who sell beverages in deposit containers to a consumer for off-premises consumption are required to operate redemption centers on-site, and must take back all empty beverage containers with a Hawaii refund value. Independent redemption centers are allowed by the law, but are subject to state certification.

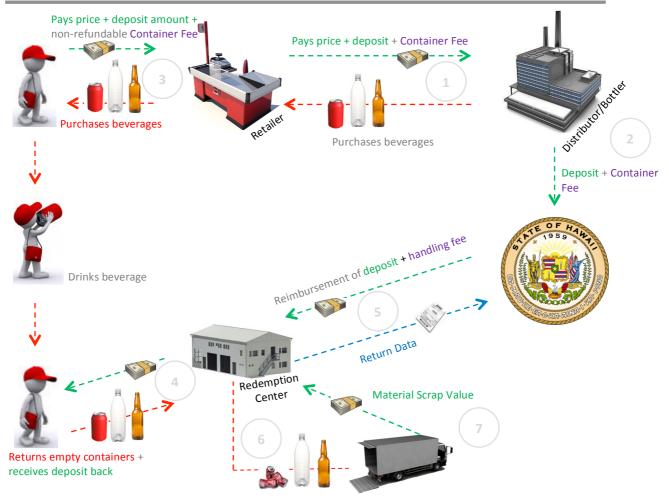
Material owner:

Redemption Center



Total Return Rate:	65%*				На	waii
Aluminum	72%					wan
Glass	61%	100				
PET	58%	80				
Bi-Metal	88%	60				
		40				
		20	_			











Population: 3.1m

Website: www.iowadnr.gov/Environmental-Protection/ Land-Quality/Waste-Planning-Recycling/Bottle-Deposit-Law

MANDATE

Beverage Containers Control Law Enacted: Implemented: Authority:

1978 1979 Iowa Department of Natural Resources (DNR)

PROGRAM SCOPE

Material:	Any sealed glass, plastic, or metal bottle, can, jar or carton containing a beverage
Beverage type:	Beer; carbonated soft drinks; mineral water; wine coolers; wine & liquor
Excluded:	Fruit and vegetable juices; fruit drinks; milk and milk products
DEPOSITS AND FEES	
Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	USD\$0.05
Unredeemed deposits:	Distributor/Bottler
Handling Fee:	USD\$0.01 paid by deposit initiator to retailers and redemption centers
SYSTEM OPERATOR	
Clearing System:	Decentralized, CRINC
System Operator & Administrator:	CRINC, Deposit Initiators

REDEMPTION SYSTEM

Return-to-Retail / Return to Redemption Center

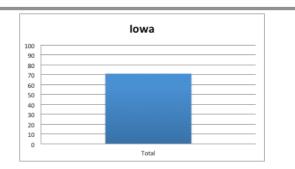
Material owner:

Deposit Initiator

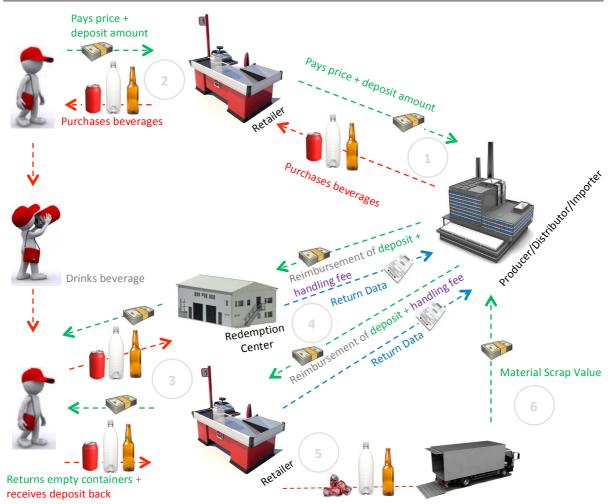
71%

SYSTEM RESULTS (2016)

Total Return Rate:









MAINE

Population: 1.3m



relcop

Website: http://maine.gov/dep/sustainability/bottlebill/index.html

MANDATE

Maine Returnable Beverage Contai	iner Law
Enacted:	1976
Implemented:	1978
Last Updated:	2011
Authority:	Department of Agriculture, Conservation and Forestry, Weights an
	Measures
PROGRAM SCOPE	
Material:	Plastic, metal (aluminum/tinplate), glass
	(all sealed containers made of glass, plastic or metal, containing \leq
	41)
Beverage type:	All
Excluded:	Dairy products; unprocessed cider
DEPOSITS AND FEES	
Depacit	Initiated by Producer/Distributor/Importer
Deposit:	initiated by Froducer/Distributor/iniporter
Deposit value:	Plastic, metal, glass: USD\$0.05
Deposit value:	Plastic, metal, glass: USD\$0.05 Wine/liquor: USD\$0.15
Deposit value:	Plastic, metal, glass: USD\$0.05
Deposit value: Unredeemed deposits:	Plastic, metal, glass: USD\$0.05 Wine/liquor: USD\$0.15 Escheated to state (when containers are not subject to a commingling agreement)
	Plastic, metal, glass: USD\$0.05 Wine/liquor: USD\$0.15 Escheated to state (when containers are not subject to a
Deposit value: Unredeemed deposits:	Plastic, metal, glass: USD\$0.05 Wine/liquor: USD\$0.15 Escheated to state (when containers are not subject to a commingling agreement) USD\$0.04 (\$0.005 less if deposit initiator participates in a qualified
Deposit value: Unredeemed deposits: Handling Fee:	Plastic, metal, glass: USD\$0.05 Wine/liquor: USD\$0.15 Escheated to state (when containers are not subject to a commingling agreement) USD\$0.04 (\$0.005 less if deposit initiator participates in a qualified
Deposit value: Unredeemed deposits: Handling Fee: SYSTEM OPERATOR	Plastic, metal, glass: USD\$0.05 Wine/liquor: USD\$0.15 Escheated to state (when containers are not subject to a commingling agreement) USD\$0.04 (\$0.005 less if deposit initiator participates in a qualified comingling agreement)

REDEMPTION SYSTEM

Return to Retail / Return to Redemption Center Retailers can opt-out if they have an agreement with a nearby redemption centre.

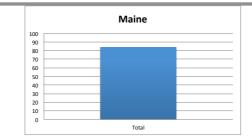
Material owner:

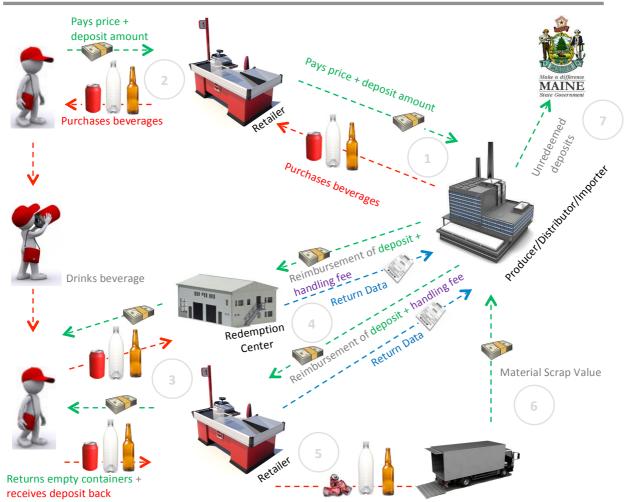
Producer/Distributor/Importer



84%

Total Return Rate:









MASSACHUSETTS

Population: 6.6m

Website: www.mass.gov/eea/agencies/massdep/recycle/ reduce/bottle-and-can-recycling.html

MANDATE

Beverage Container Recovery Law	
Enacted:	1981
Implemented:	1983
Last Updated:	2013 (Handling Fee)
Authority:	Massachusetts Department of Environmental Protection

PROGRAM SCOPE

Material:	Plastic, metal (aluminum), bimetal, glass (any sealable bottle, can, jar, or carton of glass, metal, plastic, or combination)
Beverage type:	Beer; malt; carbonated soft drinks; mineral water
Excluded:	Wine; dairy products; natural fruit juices; non-carbonated alcoholic beverages other than beer and malt

DEPOSITS AND FEES

Deposit:	Initiated by Producer/Distributor/Importer
Plastic, metal, bimetal, glass:	USD\$0.05
Unredeemed deposits:	Escheated to State (Department of Revenue)
Handling Fee:	USD\$0.0225 Retailers (receive free pick-up of containers by deposit initiators) USD\$0.0325 Redemption Centers (RCs must deliver redeemed containers to central processing facility)
SYSTEM OPERATOR	

SYSTEM OPERATOR

Clearing System: System Operator & Administrator: Decentralized, TOMRA Beverage Industry, TOMRA

REDEMPTION SYSTEM

Return-to-Retail / Return to Redemption Center

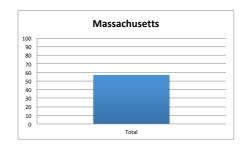
Material owner:

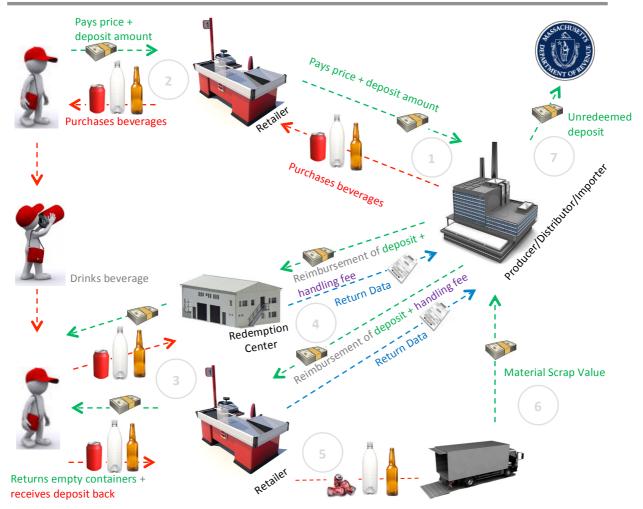
Deposit Initiator



Total Return Rate:













Population: 9.9m

Website: www.legislature.mi.gov

MANDATE

Michigan Container Law (MCL)
Enacted:
Implemented:
Last Updated:

Authority:

PROGRAM SCOPE

PROGRAIN SCOPE	
Material:	Plastic, metal (aluminum/tinplate), glass, paper (Any airtight metal, glass, paper, or plastic container, or a combination < 1 gallon)
Beverage type:	Beer/ale; soft drinks; carbonated and mineral water; wine coolers, canned cocktails; malt drink of whatever alcohol content
Excluded:	Milk; juice; water; tea; sport drinks; foil pouches
DEPOSITS AND FEES	
Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	Plastic, metal, glass: USD\$0.10
Unredeemed deposits:	75% escheated to State (to Clean-up and Redevelopment Trust Fund) / 25% avaialble to retailers to cover handling costs
Handling Fee:	25% of unredeemed deposits
SYSTEM OPERATOR	
Clearing System:	Decentralized; Michigan Soft Drink Association (MSDA), Michigan Beer & Wine Wholesalers Association (MBWWA), TOMRA
System Operator & Administrator:	Beverage industry
REDEMPTION SYSTEM	
Peturn to Petail	

1976 1978

2008 (Security Rules) 2012 (Excluded Pouches)

Michigan Department of Treasury

Return to Retail

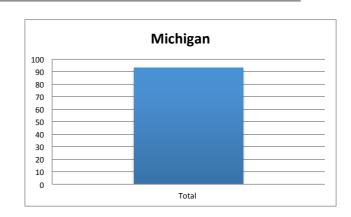
Material owner:

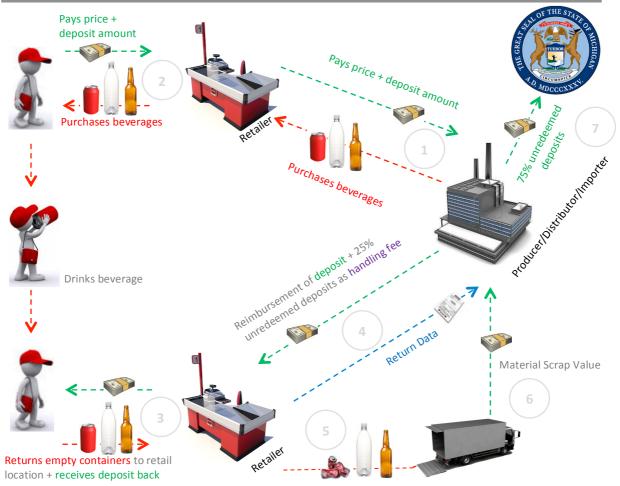
Deposit Initiator



92%

Total Return Rate:











Population: 19.5m

Website: www.dec.ny.gov/chemical/8500.html

MANDATE

New York State Returnable Container Ac	t
Enacted:	1982
Implemented:	1983
Last Updated:	2009 (Added Water)
	2012 (Rules)
Authority:	New York State Department of Environmental Conservation

PROGRAM SCOPE

Material:	Plastic, metal (aluminum), glass (any individual, separate, sealed glass, metal, aluminum, steel or plastic bottle, can or jar containing ≤ 3.78I)
Beverage type:	Carbonated soft drinks; soda water; energy drinks, juices (anything < 100% juice, containing added sugar or water); beer and other malt beverages; mineral water (carbonated and non-carbonated); wine products; water that does not contain sugar, including flavored or nutritionally enhanced water
Excluded:	Milk products; wine and liquors; tea; sports drinks; juice; drink boxes; water containing sugar

DEPOSITS AND FEES

Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	Plastic, metal, glass: USD\$0.05
Unredeemed deposits:	80% to the New York State Department of Taxation and Finance (quarterly basis); 20% retained by Deposit Initiator
Handling Fee:	USD\$0.035

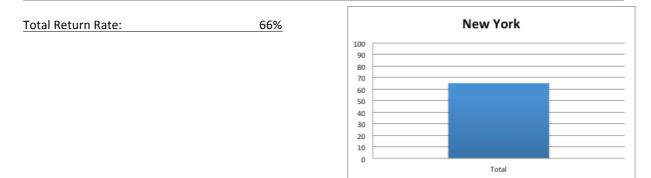
SYSTEM OPERATOR

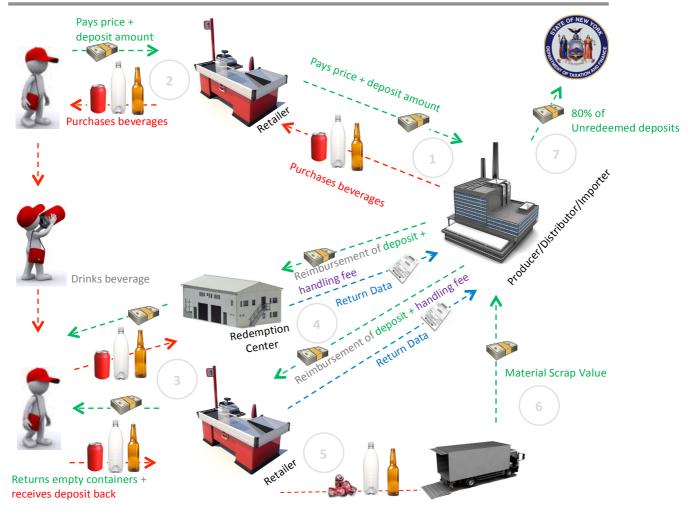
Clearing System:	Decentralized / TOMRA
System Operator & Administrator:	Beverage Industry; TNYR, Western New York Beverage Industry
	Collection & Sorting (WNYBICS)

REDEMPTION SYSTEM

Return-to-Retail / Return to Redemption Center	Stores are only required to take back the brands that they sell
Material owner:	Deposit Initiator













Population: 3.9m

Website: www.oregon.gov/OLCC/pages/bottle_bill.aspx

MANDATE



1971	
1972	
2011 (Redemption Centers)	
2016 (Evaluate Deposit Level)	
2018 (Expansion Effective)	
Oregon Liquor Control Commission (OLCC)	
	1972 2011 (Redemption Centers) 2016 (Evaluate Deposit Level) 2018 (Expansion Effective)

Material:	Plastic, metal (aluminum/tinplate), glass (any individual, separate, sealed glass, metal or plastic bottle, can, jar containing a beverage)
Beverage type:	Beverages 4 oz. up to 1.5L: coffee/tea; energy and sports drinks; fruit and vegetable juice (does not have to be 100%); juice smoothies; coconut water; non-alcohol wine; hard cider if 8.5% ABV or less; marijuana beverages; protein shakes (unless marketed as a meal replacement); Kombucha; cocktail mixers
	<i>Beverages ≤3L:</i> soda (carbonated/sparkling beverages); beer; water
Excluded:	Distilled liquor; wine; dairy or plant-based milks and milk substitutes; infant formula; meal-replacement drinks; alcoholic kombucha made with cane sugar; kefir; concentrates

DEPOSITS AND FEES

Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	Plastic, metal, glass: USD\$0.10
Unredeemed deposits:	Producer/Distributor/Importer
Handling Fee:	None
SYSTEM OPERATOR	
Clearing System:	Centralized, Oregon Beverage Recycling Cooperative (OBRC)
System Operator & Administrator: System Finance:	Beverage Industry Material revenue/unredeemed deposits

REDEMPTION SYSTEM

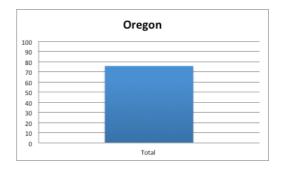
Return-to-Retail / R2RC	Note: Retail outlets ≥5,000 ft. ² are required to take back all brands and sizes of beverage containers for each kind they sell. Retailers <5,000 ft. ² may take back only brands and sizes that they sell.
Material owner:	Deposit Initiator

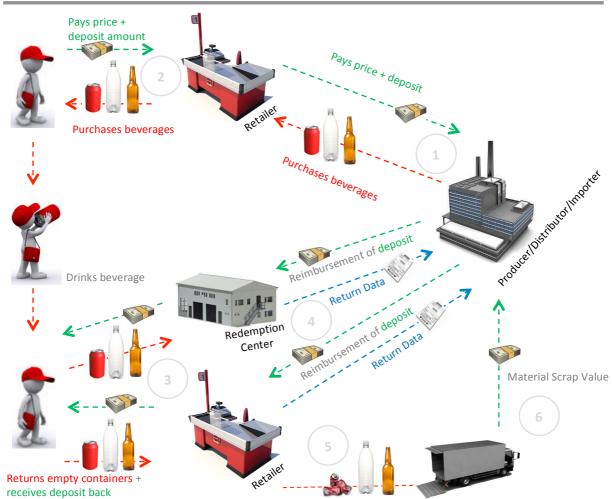


Total Return Rate:

75.7%

This number reflects an average for the year 2017. The deposit was raised from 5 cents to 10 cents on April 1. From January to March, the rate was 59%. From April to December the rate jumped to 82%











Population: 0.6m

Website: http://dec.vermont.gov/waste-management/ solid/product-stewardship/bottle-bill

MANDATE

Beverage Container Law (1972), Solid Waste Act (1987)		
Enacted:	1972	
Implemented:	1973	
Last Updated:	1991	
Authority:	Agency of Natural Resources	

PROGRAM SCOPE

Material:	Plastic, metal (aluminum/tinplate), glass (or any combination of these materials)
Beverage type:	Liquor & spirits; beer, wine coolers and other malt beverages; soft drinks and other carbonated beverages
Excluded:	Wine and hard cider; water; milk; juices; sports drinks; other non- carbonated beverages
DEPOSITS AND FEES	
Deposit:	Initiated by Producer/Distributor/Importer
Deposit value:	Plastic, metal, glass: USD\$0.05 Liquor: USD\$0.15
Unredeemed deposits:	Producer/Distributor/Importer
Handling Fee:	USD\$0.04 for brand-sorted containers, USD\$0.035 for comingled

SYSTEM OPERATOR

Clearing System: System Operator & Administrator: System Finance: Decentralized, TOMRA Beverage Industry, TOMRA Material Revenue/Unredeemed deposits

REDEMPTION SYSTEM

Return-to-Retail / Return to Redemption Center Retailers can gain State approval to opt-out of the program if they are located near a licensed redemption centre.

Material owner:

Deposit Initiator



Total Return Rate:

75%*

*Estimate is from a 2012-2013 study commissioned by the State.

