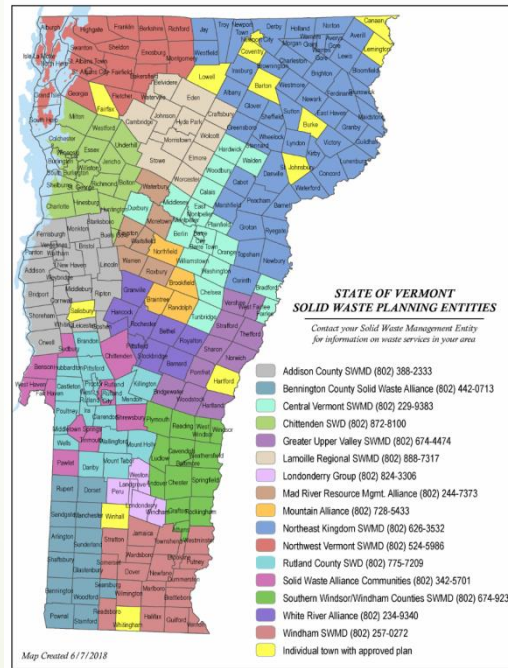


Management of Single-Use Products at the Solid Waste District Level



About me

John Leddy

Northwest VT Solid Waste

Management District

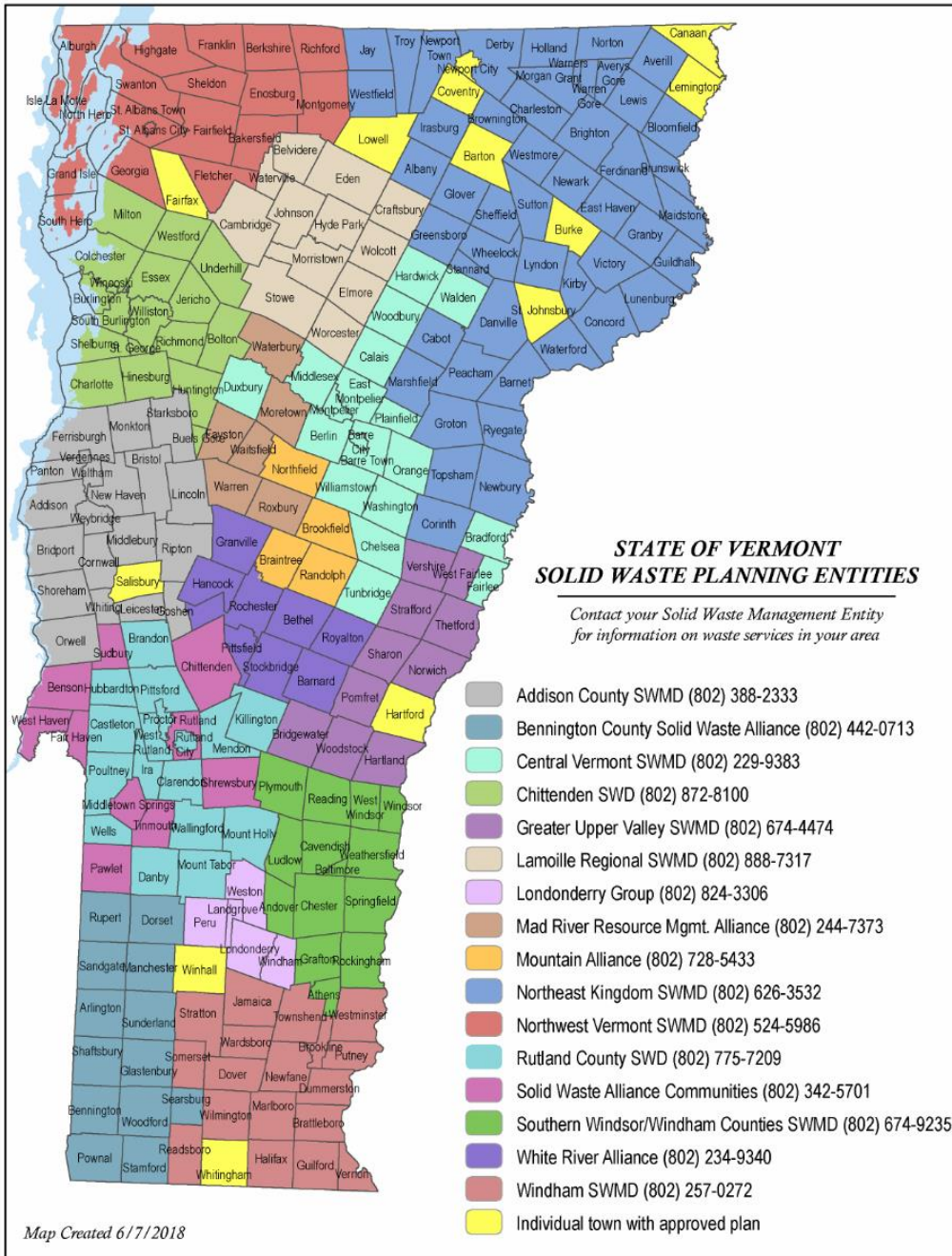
Executive Director

Vermont Solid Waste District Manager's Association -
President



Solid Waste Management Entities (SWME)

- Town
- Alliance
- District





Solid Waste Responsibility

- ▶ Under Act 78, Vermont's first major solid waste legislation much of the responsibility for solid waste planning, management and development of solid waste facilities was designated to local authorities

What is a Solid Waste District?

The **Vermont Solid Waste District Managers Association** is comprised of 14 members – 10 Waste Districts and 4 Resource/Waste Alliances.

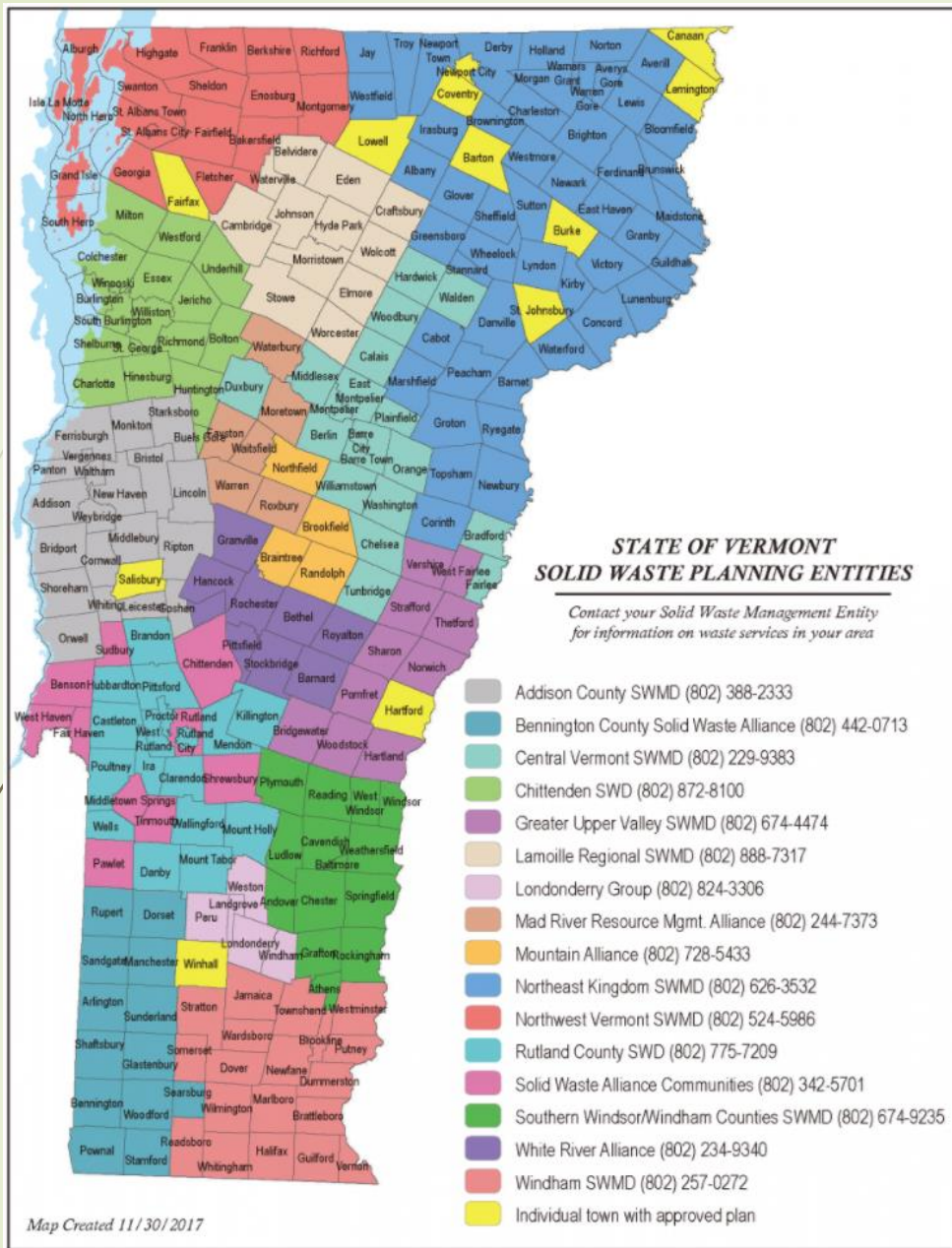
566,954 residents in 232 towns are represented by their membership in the VSWDMA. The organization represents 91% of Vermont's total population.

- Districts are “union” Municipal Districts
- Authorized by statute in 1987
- Taxing and Ordinance Authority
- Districts exist to serve district residents in reducing waste
- SWMEs include: Districts, Alliances, Groups, Towns



Waste Management Priorities

- Waste Disposal is to be considered in the broadest sense with reduction in the waste stream given highest priority followed, in descending order, by reuse, recycling, safe processing to reduce volume, and finally, safe disposal of remaining material in certified facilities, and landfills.
- Take from the NWSWD Bylaws



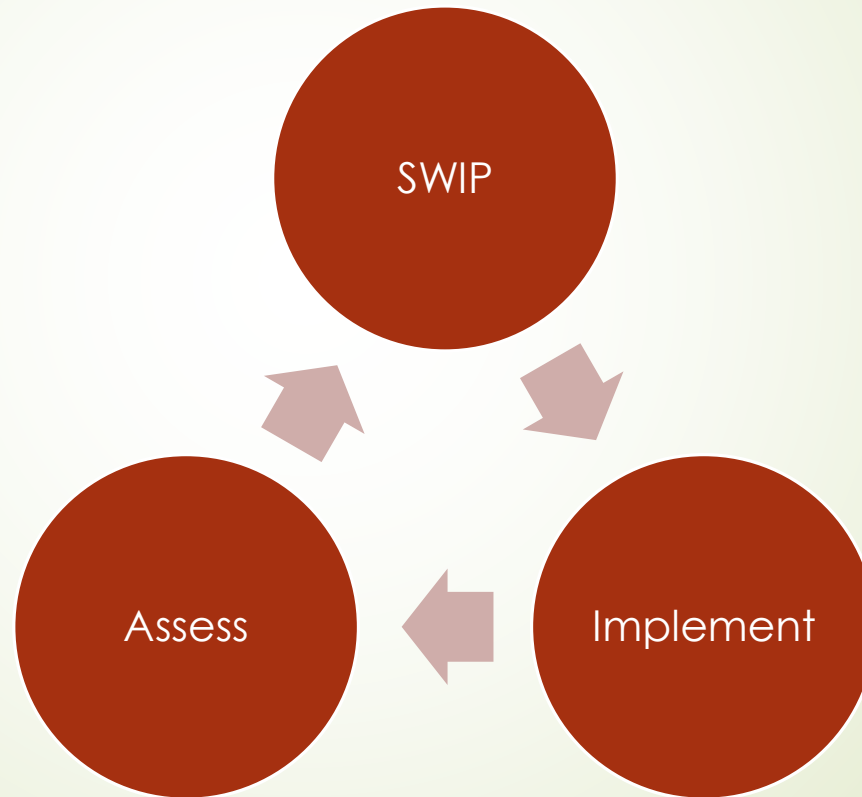
Vermont's Solid Waste District Map



What drives/governs waste management in VT

- ▶ Vermont's Universal Recycling Law (Act 148) 2012
- ▶ State: Material Management Plan (MMP)
- ▶ Solid Waste Management Entities: Solid Waste Implementation Plan (SWIP)

Planning





State and Local Plans

Vermont's MMP:

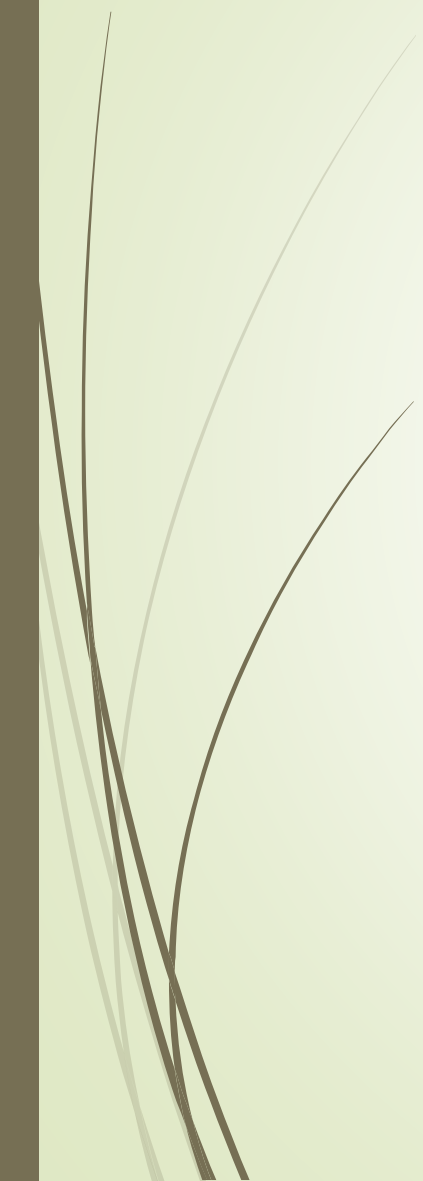
- Framework for waste prevention, reuse, recycling, and composting
- Sets Performance Standards for the reduction of both the volume and toxicity of Solid Waste generated in the state.

Planning Entity's SWIP:

- Identifies how the SWME will conform with the MMP



Material Management Plan Vision

- To prevent waste from being generated,
 - To promote sustainable materials management, with a preference for highest and best uses,
 - To minimize reliance on waste disposal (landfilling and incineration), and
 - To conserve resources, minimize energy consumption, and reduce greenhouse gas (GHG) emissions and other adverse environmental impacts.
- 



Vermont's Universal Recycling Law (Act 148)

➤ Bans recyclable material from the landfill:

Including:

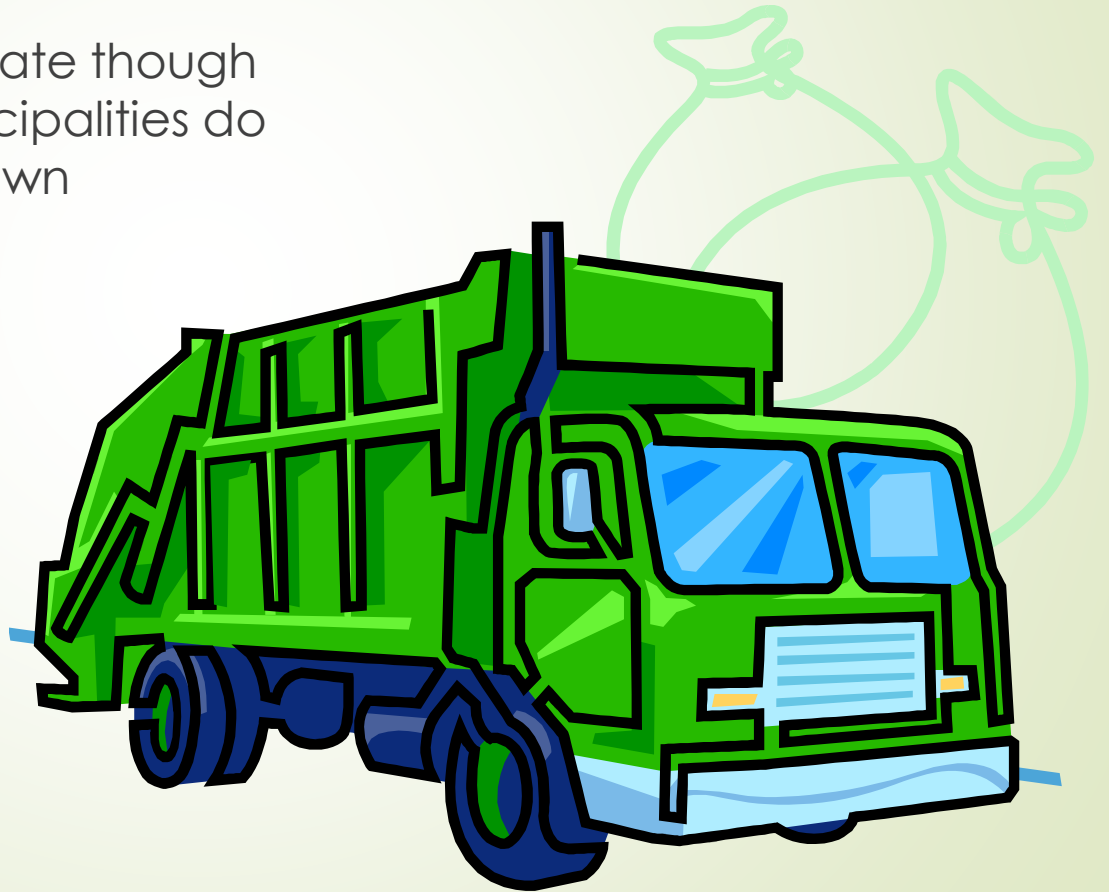
- Aluminum and steel cans
- Aluminum foil and aluminum pie pans
- Glass bottles and jars from food and beverages
- PET and HDPE plastic containers, bottles and jugs
- Corrugated cardboard
- White and mixed paper
- Newspaper, magazines, paper mail, and envelopes
- Box board
- Paper bags

Let's look at the System now



Waste Haulers (Curbside Collection)

- Largely Private though some Municipalities do offer their own collection.



Drop-off Sites



To Transfer Stations



Curbside Single Stream System



Haulers



Transfer Stations



Chittenden/
Rutland MRF

Material Recovery Facility

19



Single Stream Recycling, Chittenden MRF

Dual Stream at Georgia Recycling Center



Baled and ready to ship





Waste Costs Around Vermont

Recyclables

Middletown Springs:	\$275
Addison:	\$107.85
Bennington:	\$172.54
Stowe:	\$160.56
Craftsbury:	\$308.76
Tinmouth :	\$300
Windham SWD:	\$170
Highgate TS:	\$132.52 (tip fee only)



Waste Costs Around VT

Landfill

Stowe: \$82.00

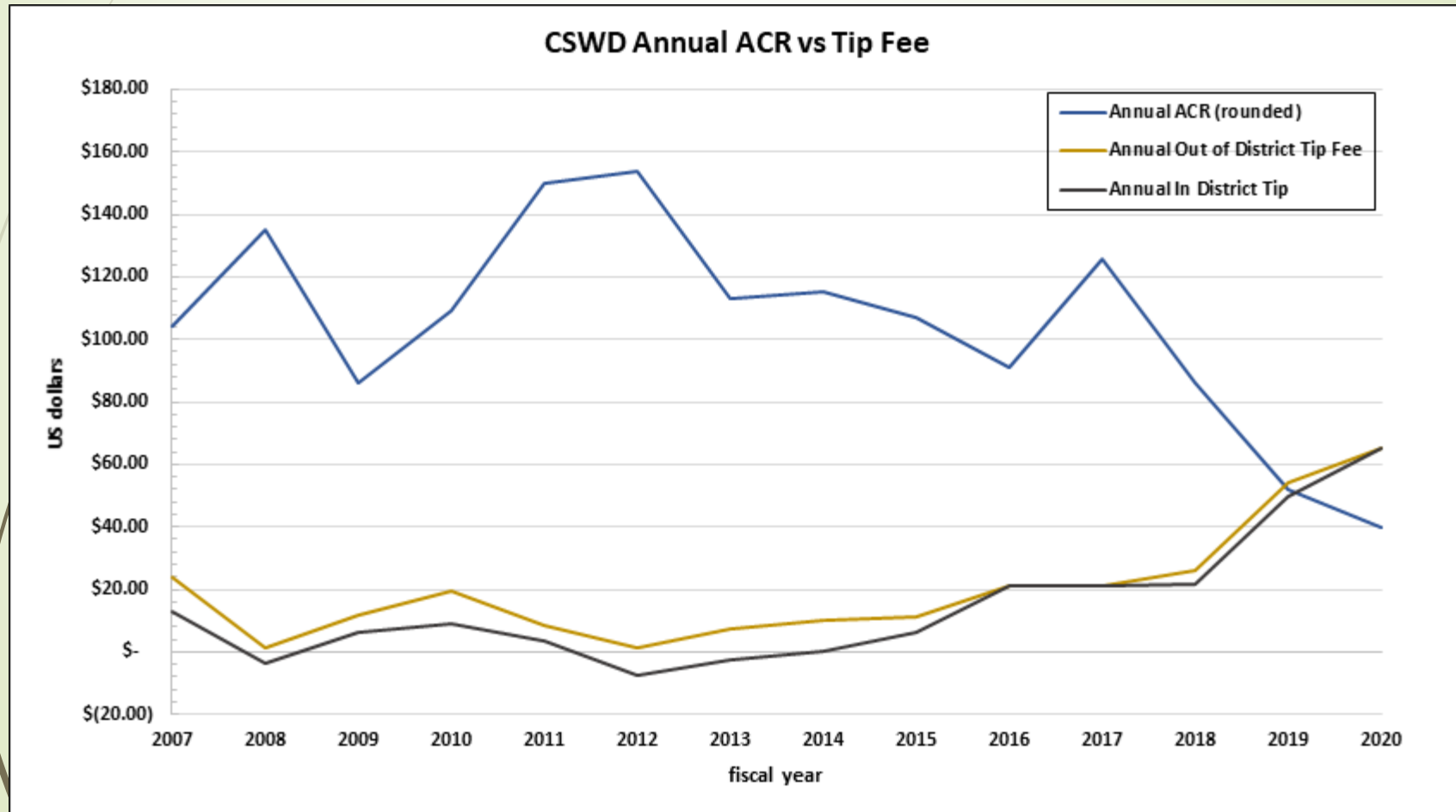
Windham SWD: \$102.50

Highgate TS: \$114.90

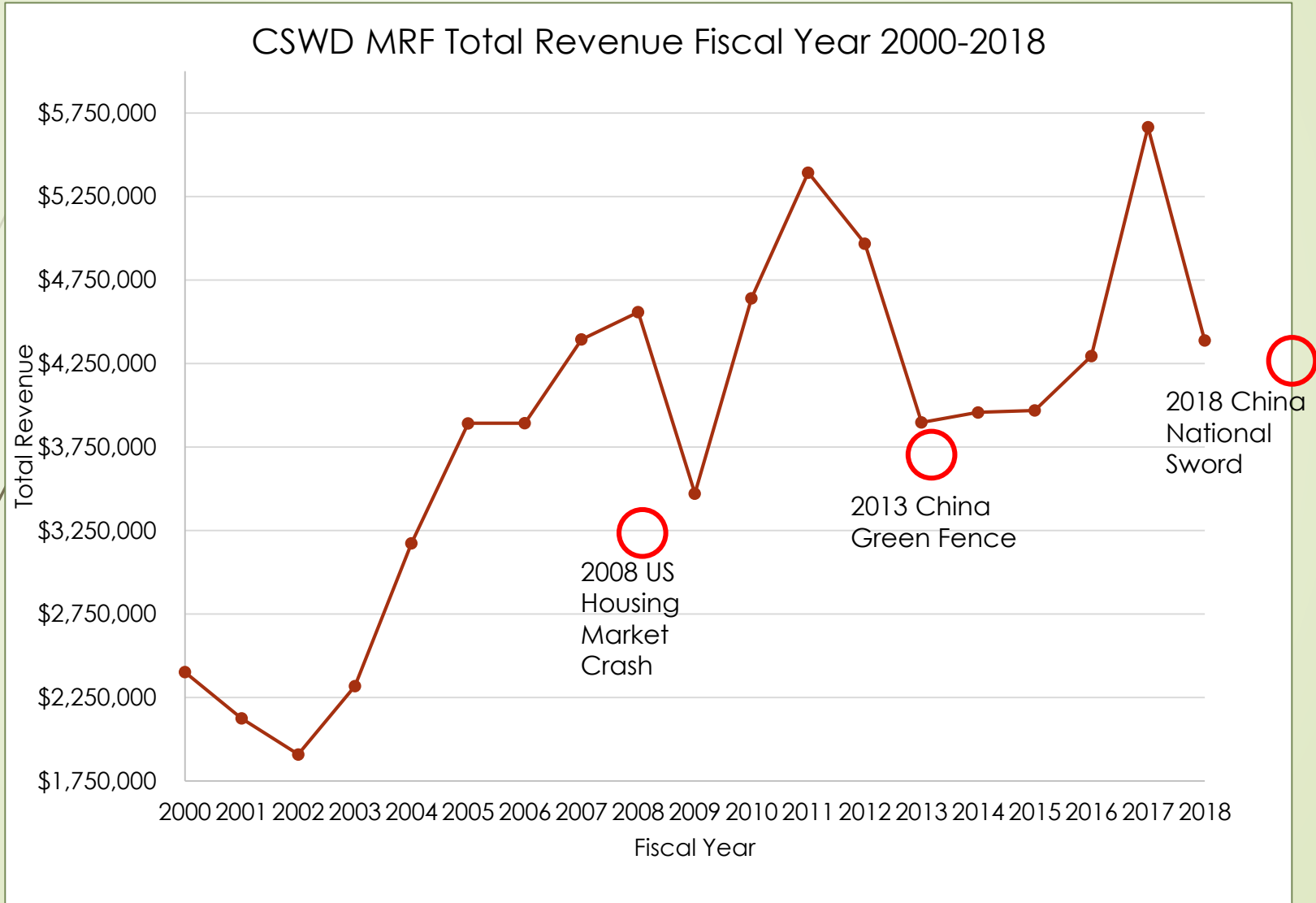
Hyde Park TS: \$101

CSWD

MRF



CSWD MRF





Causes For The Increase In The Cost of Recycling

- China National Sword
- Increasing transportation costs
- Changing Markets-Closing mills/plants, price of oil, shifting manufacturing
- Problem materials
 - Plastic film
 - EPS
 - Plant based plastics
 - Multi-material products
- Public confusion

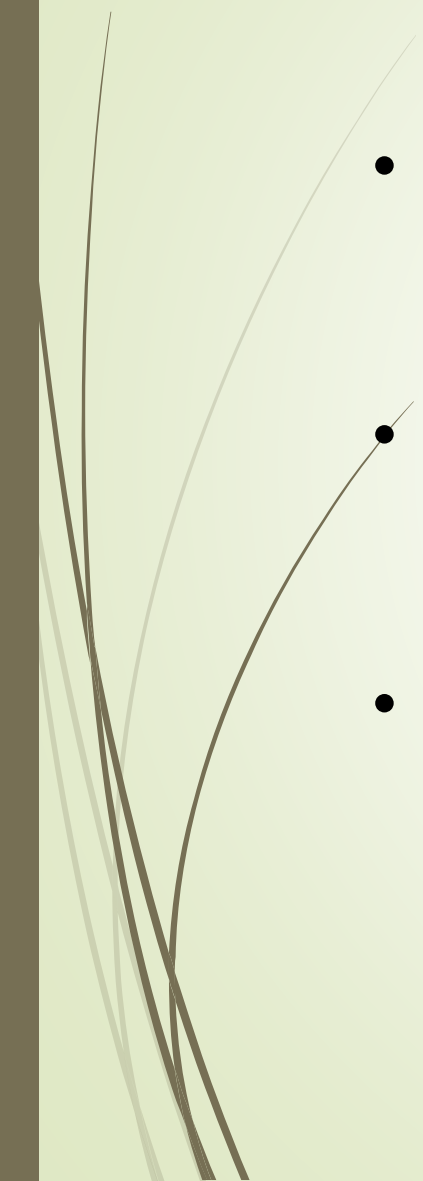


China National Sword

- Banned certain recyclables from import
 - Mixed Paper
 - Plastics
- Set tolerances for contamination at .3% raised to .5%
- Limited imports in 2018 and 2019
- Additional impacts to markets due to ongoing trade dispute



Resulting in....

- Stockpiling of material and gluts in domestic market
 - Focus on expanding and creating new domestic markets
 - Focus on lowering contamination and increased quality of materials
- 

WISHCYCLING

(verb)

Putting non-recyclable items
in the recycling bin with hope
they will be recycled.

Wish Cycling Items



wikiHow to Dispose of Styrofoam



People want to do the
RIGHT thing!



30% of plastic packaging needs fundamental redesign before it can be reused or recycled



Conclusions/Take Away

Focus on domestic markets



Conclusions/Take Away

The market demand for quality material is the new normal. Requires better equipment to clean up the stream.



Conclusions/Take Away

EDUCATION!!!



Conclusions/Take Away

EDUCATION!!!

2017 edition
CSWD CHITTENDEN
SOLID WASTE DISTRICT

The Usermaster's Guide to RECYCLING

All of the items are banned disposal in the recycling bin. Read inside to find out what to do with them.

- PAPER & cardboard**
Clean & dry
- METAL CANS & foil**
Empty & washed
- PLASTIC CONTAINERS & packaging**
Empty & washed
- GLASS BOTTLES & jars**
Empty & washed

MINIMUM SIZE 2 inches
MAXIMUM SIZE 2 feet

CSWD CHITTENDEN
SOLID WASTE DISTRICT
1021 Redmond Rd, Williston, VT
Learn more at www.cswd.net/recycling

NOT IN YOUR BIN NOT IN THE TRASH

These items are **BANNED** from the recycling bin and the trash can.
Call (802) 872-8111 or visit www.cswd.net for disposal options.

- Electronics
- Appliances
- Fuel canisters
- Mercury items
- Natural wood
- Hazardous waste
- Rechargeable batteries
- Tires
- Oil & filters
- Scrap metal
- Fluorescent bulbs

YOUR BIN
Don't belong in the bin. Read the options on the webmaster.

- Plastic bags
- Hardcover books
- Food*
- Clothing & textiles
- Single-use batteries

*All food will be banned from the landfill in VT beginning July 1, 2020.

Chittenden Solid Waste District
(802) 872-8111 www.cswd.net

..... RECYCLE

PAPER & cardboard
Clean & dry

CONTAINERS
Bottles, cans, jars, packaging
Empty & washed clean

- NO PLASTIC BAGS**
Unless certified compostable, instead: Put in trash or take back to grocery store.
- NO CLOTHES**
Instead: Bring to drop-off location.
- NO MISC. METAL**
Instead: Bring to drop-off location.

CSWD
Chittenden Solid Waste District

MORE INFO
(802) 872-8111
www.cswd.net/recycling

Conclusions/Take Away

Products Designed For.....

- Reuse



- Recycling



Conclusions/Take Away

In order for:

- The state and SWMEs to meet their waste reduction and recycling goals
- Recyclable material from Vermont MRFs to be remain desirable in the marketplace
- Cost for recycling remain manageable for Vermont communities

We need to reduce the number of single use products we use in VT, and ensure that the products and packaging we do use are made from easily recyclable materials.