

Lucky 13!

Josh Kelly April 11, 2019 **Materials Management Section** Chief



AGENCY OF NATURAL RESOURCES

So....what's new?

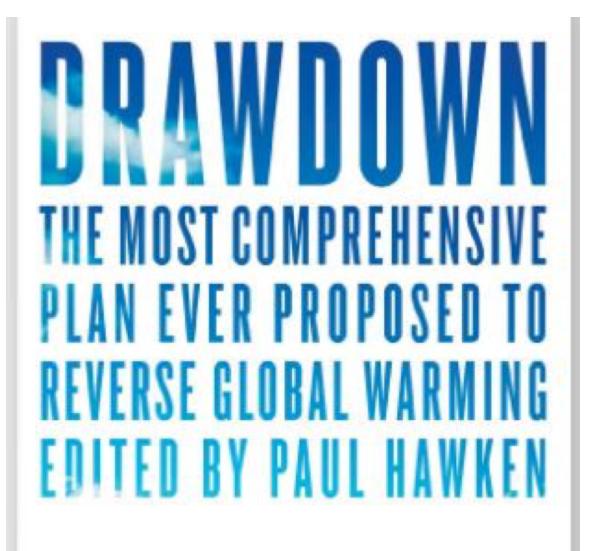
You're famous

Of Drawdown's 100 solutions:

#3. Reduced Food Waste

#30. Methane Digesters

#60. Compost





States with Organics Bans

- **CA** Apr. 2016 8-cu.yd. Jan. 2017 4-cu.yd. Revisited in 2021
- **CT** Jan. 2014 2-ton w/in 20 miles. 2020 1-ton w/in 20 miles.
- MA Oct. 2014 1-ton regardless of distance.
- **RI** Jan. 2016 2-ton w/in 15 miles.
- VT July 2014 2-ton w/in 20 miles. Phases to full ban in 2020.

NY Jan. 2022 – 2-ton w/in 25 miles.

EPA Food Waste Management & Infra. Projects

3 awards totaling \$110,000 to expand anaerobic digestion (AD)

VT DEC selected for \$43,551 of EPA funds for AD tanks/pipes & wastewater testing at 5 food-businesses, capturing value and reducing pollution.

- Complements DEC's Sustainability Cohorts program with brewers, dairies, and specialty food manufacturers.
- Continues EPA and Vermont's organics recovery partnership

DEC Organics Infrastructure Grants

Green Mountain Compost

Greater Upper Valley Organics Transfer Station

Windham Composting Facility

Lamoille Soil Compost Facility

Town of Ryegate Compost Facility

Total grant funds: \$747,089

Projects represent ~36,075 tons of food scrap processing capacity



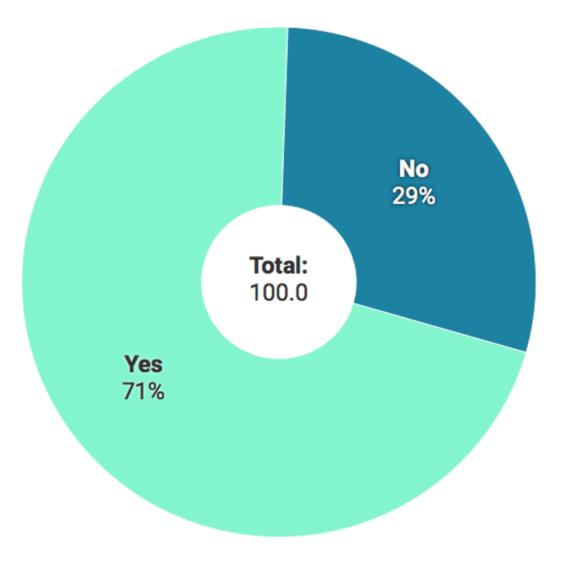


Household Food Waste **Perceptions and** Behaviors: **A Vermont Case Study** Conducted Feb. 2018 by the Vermonter Poll and Center for Rural Studies at UVM



Dr. Meredith Niles Assistant Professor University of Vermont

Have you heard about Vermont's food waste law before today?



* p< 0.01

Food waste should be banned from disposal in the landfill

Strongly agree	32.4%
Somewhat agree	23.7%
Neither agree nor disagree	18.0%
Somewhat disagree	14.6%
Strongly disagree	11.3%

• **56%** of respondents agree that food waste should be banned from the landfill

Current Food Waste Strategies

Manage your own food waste with backyard composting, or by feeding to pets or livestock

Throw your food waste into the garbage

Dispose of food waste in your garbage disposal

Drive to a drop off station with your food waste

Subscribe to a curbside pickup program for food waste, similar to recycling



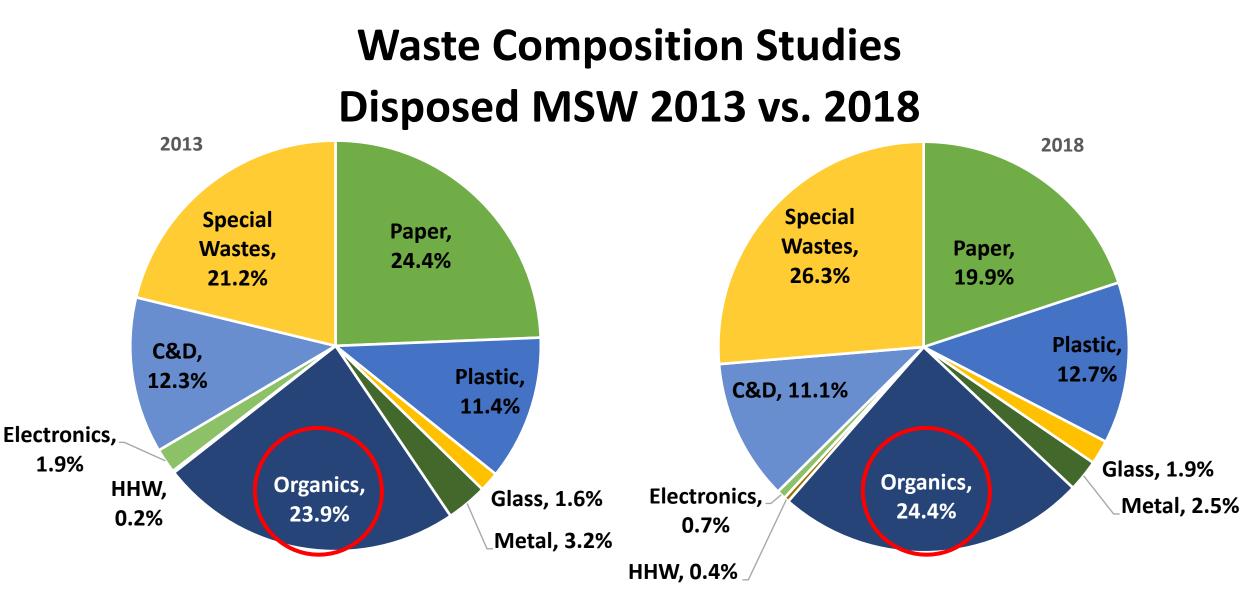
58% of VTers compost/feed animals in similar 2018 study by Castleton Polling Institute.

43.1%

22.0%

18.8%

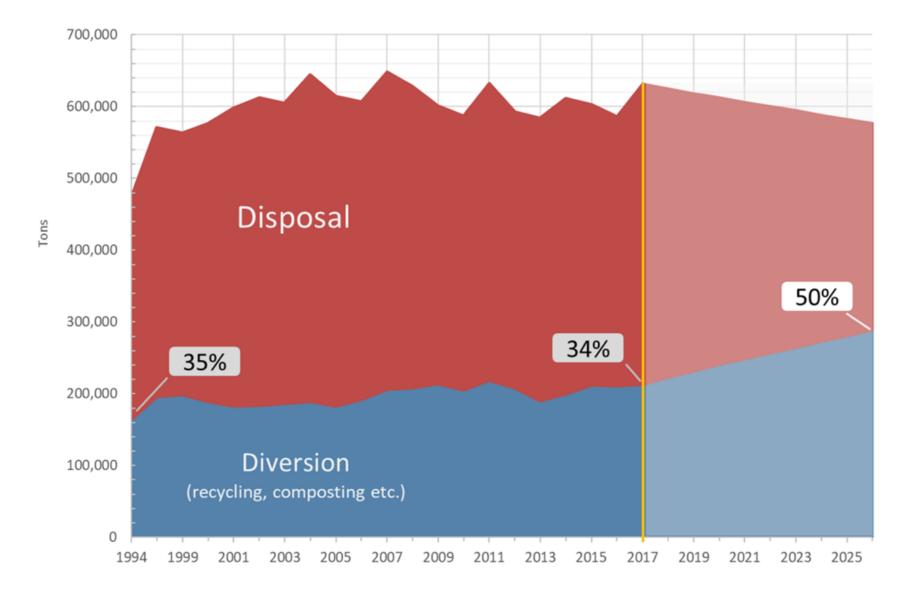
72.4%



2018 Study found that 38% of food waste was packaged

ANR estimates on average VT disposes of 77,000 tons of food/food scraps annually

Vermont State Diversion Goal



Current Status

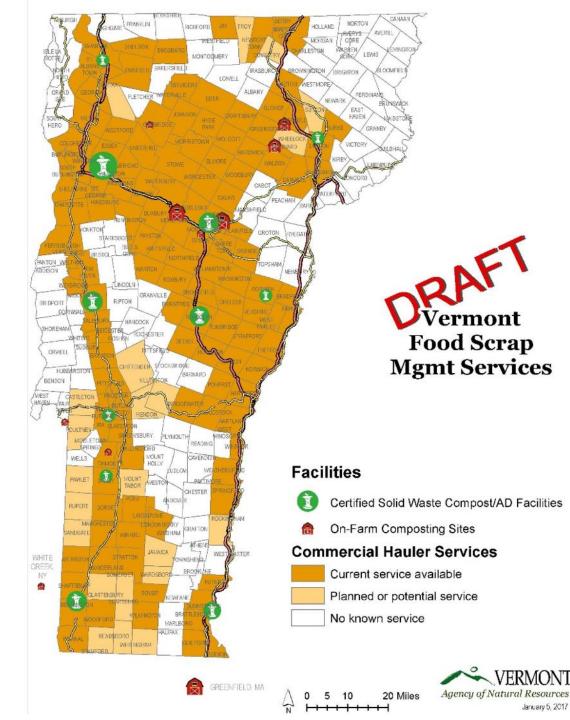


Food Donation has nearly tripled

Number of Food Scrap haulers has nearly doubled since the law passed

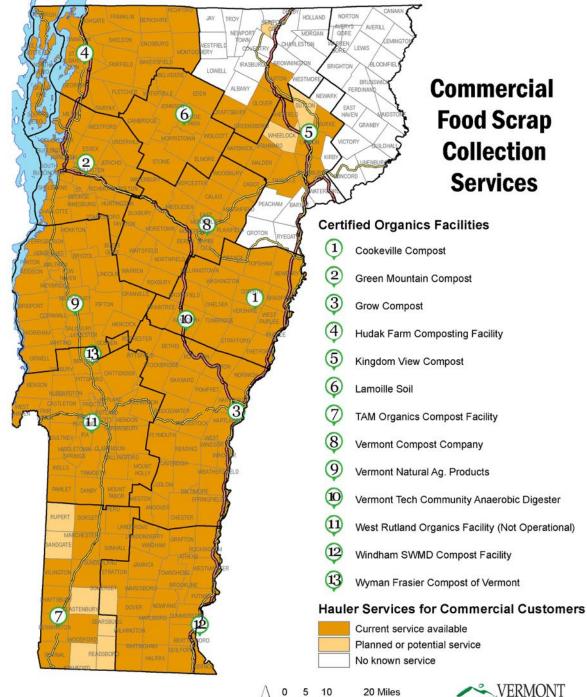
40% of residential food waste is composted or fed to animals

In 2017 Vermonters composted more than ever before (9% increase)



2018 VORS

~62% of towns have commercial services or planned services



OF NATURAL RESOURCES

Collection

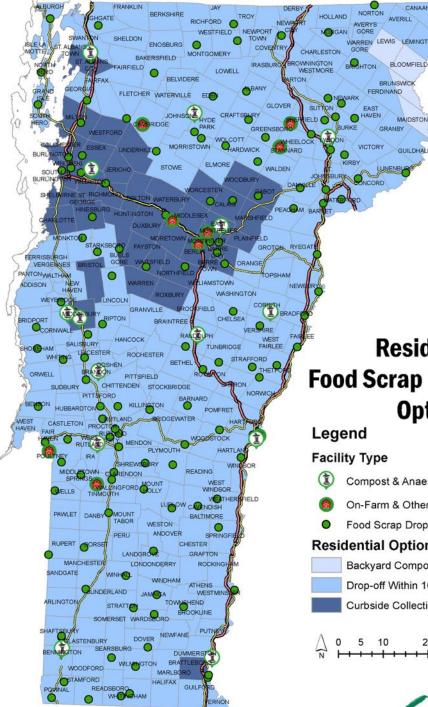
Services

2019 VORS

~80% of towns have commercial services

~85% of towns w/in 20 miles of a facility

December 5, 2018



Vermont has over 100 Food Scrap **Drop-off Locations** within 10 miles of almost every town.

Residential **Food Scrap Management Options**

Facility Type

- Compost & Anaerobic Digestion Facilities
- **On-Farm & Other Composting Sites**
- Food Scrap Drop-offs

AVERIL1

BLOOMFIELD

GUIL DHAL

Residential Options



- Drop-off Within 10 Miles
- Curbside Collection Available

20 Miles 10

VERMONT

Legislature?

ANR's Biennial SW Report Recommendations

Hauler Food Scrap Collection Requirement:

• Recommended adjusting the law to only require haulers to offer food scrap collection to commercial customers and multi-residential (4 or more units) customers, unless another hauler is providing this service.

Food Scrap Processing Capacity:

- 2017 ~15,000 tons/year were processed (ANR/DEC phone survey)
- 2020 ~46,000 tons/year of processing need (Waste Comp. Data)
- ANR estimated that expansion at existing sites can meet this need

Timing & pending legislation S.159

MATERIAL	FACILITIES	HAULERS	BANNED
Recyclables	2014	2015	2015
Leaf & Yard	seasonal 2015	repealed	2016
Food Scraps	2017	TBD 2020	2014-2020
Clean Wood			2016
All dates are July 1 st .			

S.159 also proposes:

- to allow Bag Drops to charge for recycling and
- to allow disposal waivers for mandatory recyclables when cost exceeds disposal.

What's DEC up to?

Business Outreach



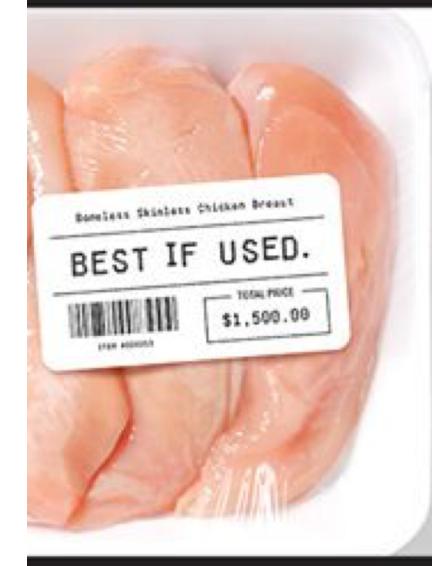


Photo credit: Central Vermont Solid Waste Management District (CVSWMD)

Composting Ads – April/May 2019



https://www.youtube.com/watch?v=2SF9zh9bXU&list=PLb5jIRj04Vi9DrzVejx9mUhs8ERQMmYz2&index=5



A FAMILY OF FOUR SPENDS \$1500 A YEAR ON FOOD THEY DON'T EAT

COOK IT, STORE IT, SHARE IT. JUST DON'T WASTE IT.

SAVETHEFOOD.COM



What we're also up to...

Compost with Confidence Handout

Emerald Ash Borer carbon sourcing for composters

Promote compost use for construction projects

Compost Technical Assistance Hours

Compost Operator Training Fall 2019

2019 Vermont Materials Management Plan

Thank you!



Because of you, Vermont's recycling, food recovery, and composting initiative is working