

PRESENTATION BY
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Environmental
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Community Wide Recycling Update



TOWN OF VAIL

Waste Diversion Goal and Recycling Ordinance

Environmental Sustainability Strategic Plan Goal #1:

Solid Waste Stream Reduction and Recycling: Reduce the amount of Town of Vail landfill contributions by 10% within 5 years and 25% within 10 years (2019).

2010 Baseline Data:

- Town of Vail: 9% (residential) and 19% (commercial)
- Eagle County: 14.7%
- National Average: 34.5%

2014 Community-Wide Recycling Ordinance

1. Embedded rates
2. Pay as You Throw
3. Mandatory Recycling
4. Hauler Registration and Reporting
5. On-site recycling
6. Equal Service

Public Outreach and Education




ARE YOU A SMALL BIN PERSON?

The Town of Vail has been given twenty 32-gallon, wildlife resistant trash containers (\$236 value) to give away to residents who are committed to reducing trash produced and increasing recycling efforts. You will also receive a recycling sticker to repurpose your larger trash bin to a recycling container. To receive a FREE small bin, fill out the short application at lovevail.org. Supplies are limited so submit your application today.




970.479.2333
lovevail.org



- Composting Program
- Business Recycling Challenge
- Climate Action Collaborative
- Clean Up Day
- Staff and Community Presentations
- Small Cart Exchange Program
- Recycled Art Installation

Honeywagon Organics
COMPOST

YES ALL FOOD SCRAPS

NO NO RUBBER BANDS
NO PLASTIC
NO STICKERS

YES PAPER PRODUCTS

Please make sure to remove all plastic packaging and labels from food and paper products before adding to the compost bin.

If you are unsure of whether or not an item is compostable please contact Vail Honeywagon:
970.476.3511



Town of Vail Recycling Rates

recycling + composting

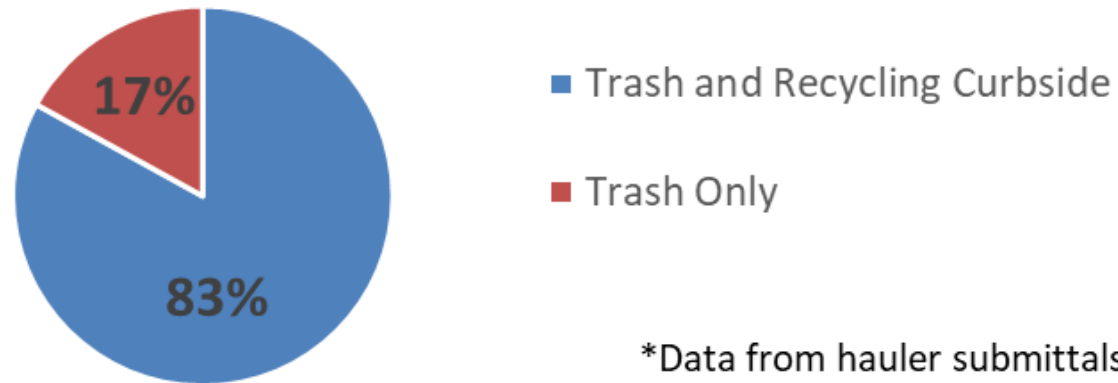
(recycling + composting + landfill bound municipal solid waste)

TOV Annual Tonnage Estimates					
	2019 tons	2018 tons	2017 tons	2016 tons	2015 tons
MSW (Landfill)	11,487	10,871	9,832	8,995	8,126
Recycling	3,897	3,597	2,755	2,224	1,955
Organics	350	155	50	37.5	0
Recycling Rate	25%	25%	22%	20%	19%
Recycling Rate w/ Organics	27%	26%	22%	20%	19%

*Data includes residential and commercial municipal solid waste, including recycling and organics, only.

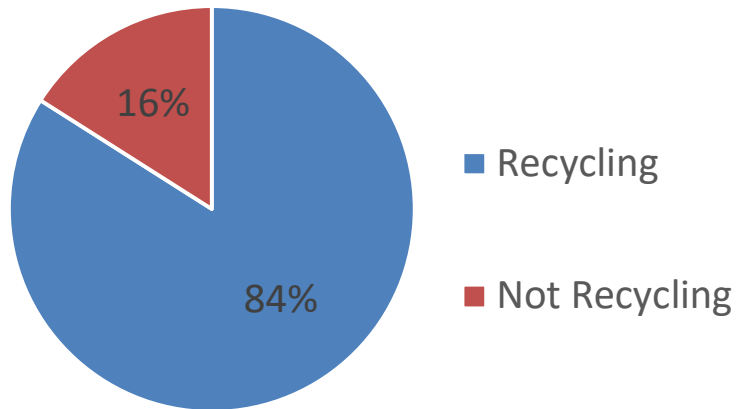
Residential Recycling Participation

2019 TOV Residential Recycling Participation Rate

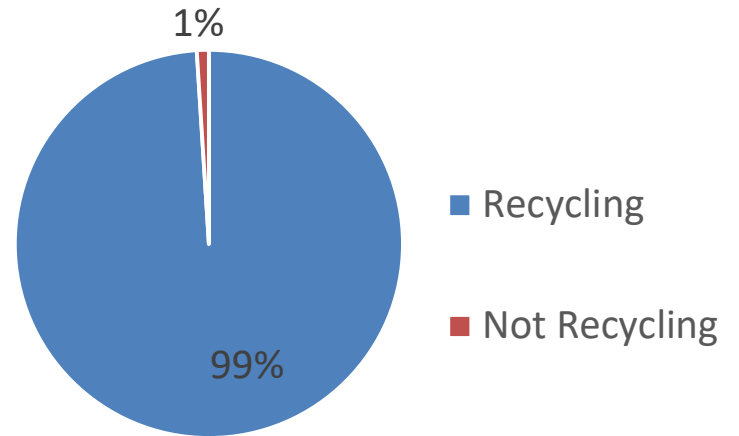


Commercial Recycling

Commercial Recycling Participation



Multi-Family Recycling Participation



Statistics from 2018 data; these data were not available in 2019.

Diversion Rate with Construction and Demolition Debris

2019 TOV Tonnage Estimate with C & D		2019 TOV Tonnage Estimate	
MSW with C & D	14,296	MSW	11,487
Recycling with C & D	4,030	Recycling	3,897
Organics	350	Organics	350
Diversion Rate including C&D	23%	Recycling Rate	27%

19% of landfill waste = construction and demolition debris

3.7% construction and demolition debris created is recycled

Municipal Operations and Collection Events

Town of Vail			2018 TOV Operations		
2018 Collection Events			Scrap Metal		
Spring 18 Collection Event:	280 cars		Vehicle Oil (TOV Recovery- 1,763 gal)	6.5	tons
Paper Shredding:	3,120	lbs	Vehicle Oil (Mesa Environmental- 441 gal)	1.6	tons
HHW (Paint/Chemicals, etc)	7,815	lbs	Chipping and Composting	50	tons
E-Waste	16,319	lbs	E-Waste	1.25	tons
Total	27,254	lbs	Municipal Compost	25.98	tons
			Total	95	tons
Fall 18 Collection Event			TOV Drop Site		
E-Waste	9,871	lbs	Co-Mingle	48.7	tons
Paper Shred	1,840	lbs	Paper	51.2	tons
Total	11,711	lbs	Cardboard	46.2	tons
2018 Total Collection Events:	19	tons	Total	146.1	tons

Town of Vail		
2019 Collection Events		
Spring 19 Collection Event:	280 cars	
Paper Shredding:	2,500	lbs
HHW (Paint/Chemicals, etc)	3,411	lbs
E-Waste	13,130	lbs
Total	19,041	lbs
Fall 19 Collection Event	147 cars	
E-Waste	6,957	lbs
Paper Shred	1,420	lbs
Vinyl Banners	1,000	lbs
Bike Tubes	50	lbs
Total	9,427	lbs
2019 Total Collection Events:	14	tons

2019 TOV Operations		
Scrap Metal	7	tons
Vehicle Oil (TOV Recovery- 1,358 gal)	5	tons
Vehicle Oil (Mesa Environmental- 475 gal)	1.8	tons
Chipping and Composting	50	tons
E-Waste	1.9	tons
Municipal Compost	31	tons
Total	97	tons
TOV Drop Site		
Co-Mingle	49.2	tons
Paper	50.1	tons
Cardboard	50.2	tons
Total	149.5	tons

Zero Waste Events

2019 Zero Waste Event Data	Pounds	Tons
Landfill	12,940.5	6.5
Recycling	34,752.7	17.4
Compost	12,145.8	6.1
2019 Total Collection	59,839.0	29.9
Average Diversion Rate	80.40%	

- US Burton Open
- Taste of Vail
- Campsite
- GoPro Mountain Games
- Vail Farmer's Market
- Rocky Mountain Burger Battle
- Vail Craft Beer Classic
- Gourmet on Gore
- Vail Social

Eagle County Update


Climate Action Collaborative Materials Management Task Force:

- Biannual Recycling Guide
- Waste Wizard App
- C & D Round Table


Be Better At Recycling

WHY? One bad bin can contaminate a truck of good bins. When in doubt, check the Eagle County Waste Wizard App.

Put In Your Recycling Bin




Glass Jars
w/out lids



Plastic Bottles, Tubs, Jugs & Jars
w/ lids



Tin Cans




Aluminum Cans
pls don't crush




Glass Bottles
w/out lids




Paperboard
no frozen food boxes



Paper




Newspaper



Office/Mixed Paper



Magazines



Junk Mail

Don't Put in the Recycling Bin It Goes Somewhere Else!

- Batteries
- CFL Light Bulbs
- Electronic Waste
- Greasy Pizza Boxes *compost if you can!*
- Large metal
- Syringes & Needles
- Textiles *clothing, sheets, fabrics, shoes*

Check the **Waste Wizard** app on where to take these items in the county.


Never Put in Your Recycling Bin

- Plastic Bags *don't bag your recyclables*
- Broken Stoneware or Ceramics
- Small Plastics *utensils, cold/hot drink lids, dressing cups*
- #7 PLA Plastic
- Styrofoam

To recycle right, start here:

HOW DO YOU RECYCLE AT HOME? DO YOU PUT YOUR RECYCLING IN...

2 BINS (DUAL-STREAM)



Dual-stream (2 bins) recycling means that you separate your plastics, glass, cans, bottles from the paper and cardboard. dual-stream, cardboard is not collected curbside and should be taken to a drop-site.

OR

1 BIN (SINGLE-STREAM)



Single-stream (1 bin) recycling means you to put all recyclables into the same bin.

Note that most businesses use single-stream.

> VAIL VALLEY WASTE & WASTE MANAGEMENT
> VAIL HONEYWAGON
all other residential pick up aside from the dual stream communities on left.

IT'S TRICKY

- these items depend on your stream- check the Waste Wizard App for answers

- Aseptic Cartons *juice and milk cartons*
- Cardboard
- Clam-shell containers *plastic fruit & veggies containers*
- Plastic cups
- Shredded Paper
- Starbucks/other hot cups
- Tin Foil *clean and balled up*

81% OF YOUR WASTE CAN BE DIVERTED FROM THE LANDFILL

26% RECOVERABLE

35% ORGANICS

20% RECYCLABLE

CURRENT DIVERSION RATES

Eagle County	17%
State Average	35%
Eagle County Climate Action Plan Goal	10% by 2019

42% OF OUR INDIVIDUAL GHG EMISSIONS COME FROM HOW WE PRODUCE, CONSUME, AND DISPOSE OF OUR STUFF AND FOOD

ClimateActionCollaborative.org
#BeBetterTogether



CLIMATE ACTION COLLABORATIVE

walking mountains sustainability

The Eagle County Waste Wizard is Your Free Recycling App



Download on the App Store | Ask the Waste Wizard at walkingmountains.org/recycle

Eagle County Landfill: C & D Recycling Pilot Program

- \$15 tipping fee
- Clean dimensional lumbar
- Concrete with rebar
- Concrete without rebar
- Diverted 3,000 tons in 2018 and 1,500 tons in 2019

Eagle County Diversion Rates

Recycled Material (Residential & Commercial)	2010 Tons	2011 Tons	2012 Tons	2013 Tons	2014 Tons	2015 Tons	2016 tons	2017 tons	2018 tons
MSW Residential and Commercial ^{ab}	4,188	7,036	7,595	8,284	9,535	13,683	11,735	10,743	14,038
Organics ^c	5,907	4,231	3,856	4,808	6,432	4,798	5,134	4,175	4,007
HHW and Ewaste ^d	34	55	60	102	125	138	130	144	101
			-	-	-	-	-	-	-
Total MSW Recycled	10,129	11,322	11,510	13,194	16,092	18,619	16,998	15,061	18,146
Total MSW Disposed ^e	58,547	47,472	47,336	46,246	48,693	50,549	51,430	52,676	51,583
Total MSW Generated	68,676	58,794	58,846	59,440	64,785	69,168	68,428	67,737	69,729
MSW Recycling Rate ^f	14.7%	19.3%	19.6%	22.2%	24.8%	26.9%	24.8%	22.2%	26%

Diverted Materials (Industrial)	2010 Tons	2011 Tons	2012 Tons	2013 Tons	2014 Tons	2015 Tons	2016 Tons	2017 tons	2018 tons
Diverted Materials (non-MSW)	855	1,595	2,669	1,583	1,734	521	96	92	4,159
Total Recovered Material (Residential, Commercial, and Industrial) ^g	10,984	12,917	14,179	14,777	17,826	19,140	17,094	15,153	22,305
Total Solid Waste Disposed	86,988	82,539	68,480	69,552	78,862	78,505	82,770	84,022	107,736
Total Solid Waste Generated	97,972	95,456	82,659	84,329	96,688	97,645	99,863	99,175	130,041
Diversion Rate	11.2%	13.5%	17.2%	17.5%	18.4%	19.6%	17.1%	15.3%	17%

^a Includes: Glass, Plastics #1 - #7, OCC, ONP, OP, steel, tires, aluminum

^b Sources: Vail Resorts, Waste Management, Honeywagon, Costco & City Market, Eagle County MRF, Eagle County Landfill

^c Sources: Honeywagon, EverGreen Zero Waste, TOV, Grub Dump, Eagle County Landfill

^d Sources: Eagle County HHW, ERI, Metech, Blue Star

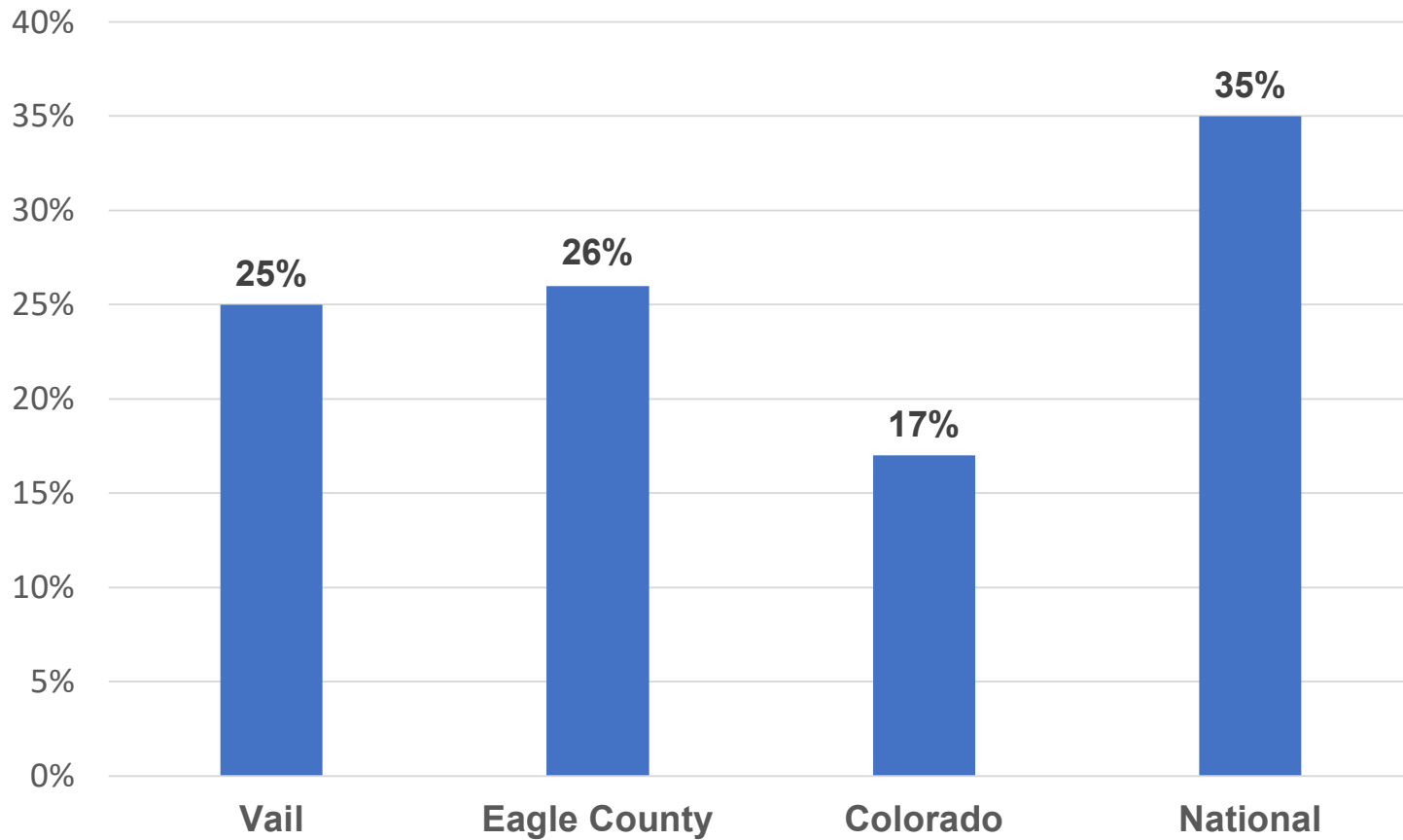
^e Total MSW disposed is total landfill tonnage minus diverted materials and industrial (C&D) waste

^f Total MSW recycled/total MSW generated

^g Total MSW recycled + total industrial diverted

How Vail Measures Up

2018 Recycling Rates



2020 Waste Diversion Initiatives

Goal #1: Solid Waste Stream Reduction and Recycling: Reduce amount of Town of Vail landfill contributions by 10% within 5 years and 25% within 10 years (2019).

- Love Vail campaign
- Compliance Inventory
- Curbside composting pilot program
- Celebrate Green
- Signage
- State Legislation

Discussion

Vail as a National Leader in Recycling

The Environmental Sustainability Department is seeking Town Council direction:

- 1. Increased enforcement of current regulations**
- 2. Construction and demolition waste diversion standards**
- 3. Single hauler municipal contract**

Increased Enforcement

Increased enforcement of current regulations

- **Current:** Outreach and one on one discussions with businesses
- **Code:** Recycling ordinance can be enforced with a court summons and determination by the Judge.
- **Process:** Warnings, court summons, and potential fines up to \$1,000 to residents and businesses
 - ~ Wildlife resistant containers

Construction and Demolition Debris

Construction and demolition waste diversion standards

- **13%** of all waste = construction and demolition debris (C & D).
- Vail's average = **19%** of landfill bound waste is C & D
- **3.7%** of all C & D debris in Vail is diverted from the landfill.
- Potential
 - New C & D recycling site at the landfill
 - New C & D waste diversion standards for all construction projects in town

Single Hauler Municipal Contract

Current

- Open Market System
- 3 waste haulers registered and operating in Vail:
 - Vail Honeywagon
 - Waste Management
 - Vail Valley Waste
- Trash and recycling trucks in Vail 6 days/week
- Hauler Reporting
 - Quarterly Audits
 - Difficulty with data collection in 2019

Single Hauler Municipal Contract

- State legislation for single hauler system (<8 units)
- TOV selection of 1 hauler , multiple services
 - Proven tool to achieve goals

Single Hauler Communities

Eagle	Telluride
Minturn	Louisville
Carbondale	Superior
Rifle	Manitou Springs
New Castle	Golden
Fruita	Lafayette

Positive Outcomes of Single Hauler Systems

Environmental Impact

- ↑ Recycling rates on average of 13%
- ↓ Greenhouse gas emissions (~33%) and air pollution
- ↑ Data collection, reduced staff time
- ↓ Contamination in recycling
- ↓ Dumping in public areas
- ↓ Days exposure to wildlife

Health, Safety, and Aesthetics

- ↑ Safety on the roads for pedestrians in residential areas
- ↑ Air quality
- ↓ Odor and noise
- ↓ Days containers set out

Rates, Service, and Communication

- ↓ Cost (12%-42%)
- ↑ Accountability/Service Level
- ↑ Streamlined communications- services, collection days, education
- ↑ Ease of enforcement



Considerations of Single Hauler Systems

Limits free market hauler services in the residential sector

Limits resident choice on selecting hauler

- Level of service and cart sizes (Pay as You Throw program)

Billing Structure

- Options vary – in-house to hauler provided

Overall Infrastructure:

- Pay as You Throw, bundled pricing, recycling requirements, enforcement
- Vail's infrastructure - well poised to transition to single hauler system

Staff Recommendations

Staff recommends prioritization single hauler municipal contract,

Next Steps:

- Identify Legal parameters/procedure
- Establish Program objectives, services
- Community Input
- Hauler Input
- Develop RFP

Additional Actions:

- Active Enforcement
- C & D Standards

Thank you



TOWN OF VAIL