



REDUCE.
REUSE.
RECYCLE.



Learn about the state of recycling
and how to be a better environmentalist

A recording of this webinar will be available on [DunedinGov.Com/GreenScene](https://www.dunedin.govt.nz/green-scene) after the presentation.

The 3 R's of Sustainability

Reduce
Reuse
Recycle.

Rethink,
Refuse,

Reduce,
Reuse,
REPURPOSE,

RECYCLE, ROT

© GreenConscience.de

[Read about the 7 R's on
DunedinGov.Com/GreenScene](http://DunedinGov.Com/GreenScene)

The State of Recycling

- Municipal recycling steadily growing since 1960s
- China's "National Sword" policy, enacted in January 2018: Contamination rate must be 0.5% or lower

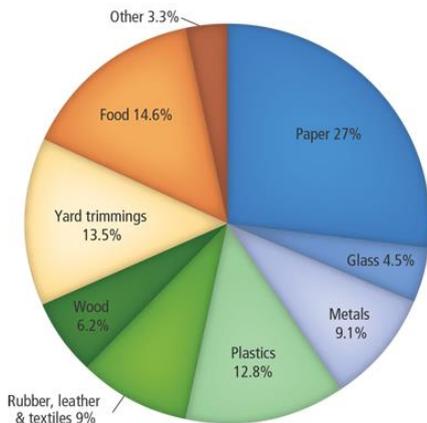
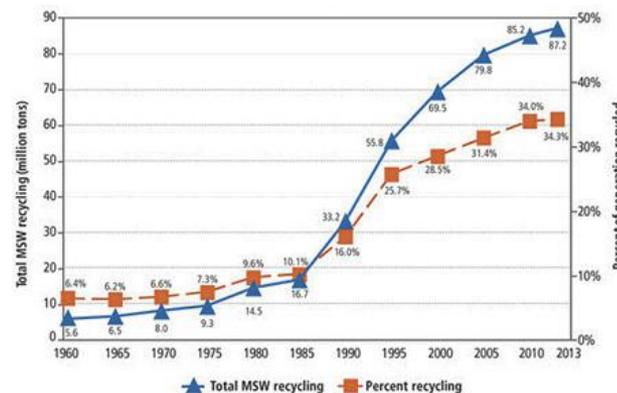


Figure 4. Total MSW Generation (by Material), 2013
254 Million Tons (before recycling)

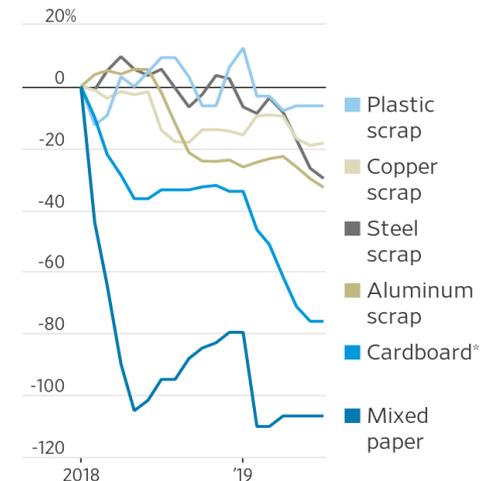
[+ View information in text format](#)
[+ View enlarged image](#)



Scrapped

All recycled commodity prices have fallen since China enacted its 'National Sword' policy, especially paper and cardboard.

Recycled commodity prices, percentage change from January 2018



The State of Recycling



- ❑ Domestic markets shifting and slowly growing
- ❑ Public sector, private sector and nonprofits collaborating
- ❑ Some recycling programs end or changing, others are revamping with more education
- ❑ Focus on contamination
- ❑ Focus on zero waste and reducing overall waste streams



Dunedin Recycling Program



- Mixed recycling: paper, newspaper, plastic bottles, glass jars, tin cans
- Recycling Drop-Off Locations:
 - Lake Haven Recycling Center: 810 Lake Haven Rd
 - This site also has free mulch, a cooking oil receptacle and clothing/shoe drop-box
 - Highlander Pool: 1941 Ed Eckert Drive
 - This site also have a clothing/shoe drop-box



Where does Dunedin's recycling go?

- Recycling is sorted at the Materials Recovery Facility (MRF) in Sarasota, FL
- Almost all commodities are sold to domestic markets: Georgia and Alabama



[WATCH
MRF VIDEO](#)

What to recycle?

Keep it
clean!

DUNEDIN'S GUIDE TO RECYCLING

YES THESE ITEMS
CAN BE RECYCLED



Aluminum, Tin
and Steel Cans



Paper and Cardboard



All Colors Glass Bottles and Jars



Food and Beverage Cartons



Plastic Bottles and Containers (#1-7)

Rinse out containers before placing in your cart.

NO THESE ITEMS
CAN NOT BE RECYCLED



No Cords, Appliances
or Lights.



No Paper Towels, Plates,
Cups, Tissue or Wax Paper



No Scrap Metal,
Construction & Yard Debris



No Styrofoam, Foam
Containers or Packaging



No Plastic Bags*, Wrap,
Food, Packaging or Film

*Plastic bags can be dropped off at your local grocery store.



Solid Waste & Recycling
(727)298-3215

www.dunedingov.com/recycling



When in doubt, throw it out!

When in doubt ... throw it out!



NO

Place food-soiled and greasy items in the trash.



NO

Styrofoam isn't recycled in residential programs.



NO

Not all plastics are created equal. Stick to bottles and jugs when recycling.



NO

Plastic bags and films do not belong in your recycling bin.

In Pinellas County, garbage is used to make electricity!



WHEN IN DOUBT THROW IT OUT

These items do not belong in your recycling bin



OTHER PLASTICS



BAGS OF ANY KIND



CERAMIC DISHWARE



STYROFOAM



CORDS, WIRES AND HOSES



FOOD-SOILED ITEMS

No tanglers!



**DON'T
BAG**
Recyclables



**WIRES, CHAINS AND ROPES... OH MY!
"TANGLERS" BELONG IN THE TRASH.**

"Tanglers" are items placed in a recycling cart which can wrap around our sorting equipment causing damage or shutting down our recycling center.



NO Wires, Clothing hangers, Toys, Clothing, Ropes, Garden hoses, Cords, String lights, Plastic bags, Plastic wrap, Chains, Electronics, Appliances, Yard Debris



No Plastic Bags!

Never bag recyclables

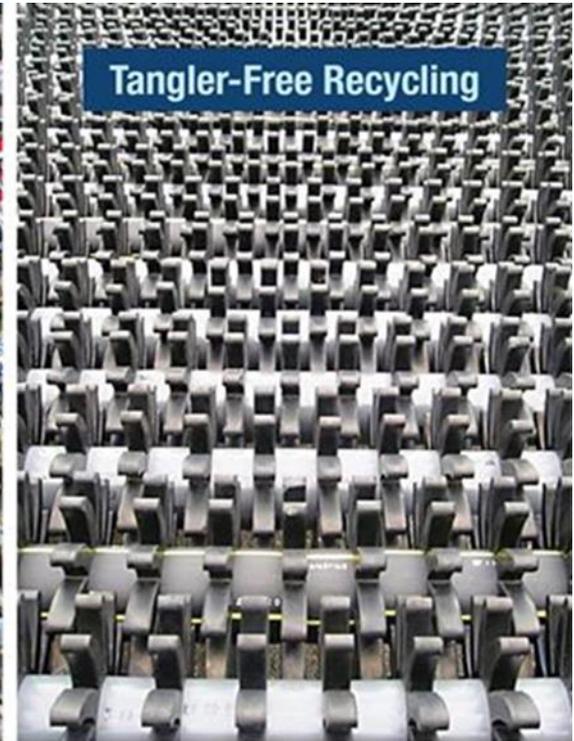


Keep Recycling 
Tangler-Free
Tampa Bay



Plastic bags, hoses, cords, ropes, clothes and other tangles shut down the recycling process.

Recycle right and toss tangles in the trash!



TampaBayRecycles.org



No PPE or medical equipment

Personal protective equipment (PPE) like gloves, masks, and gowns along with cleaning wipes, paper towels and tissues are **NOT RECYCLABLE.**

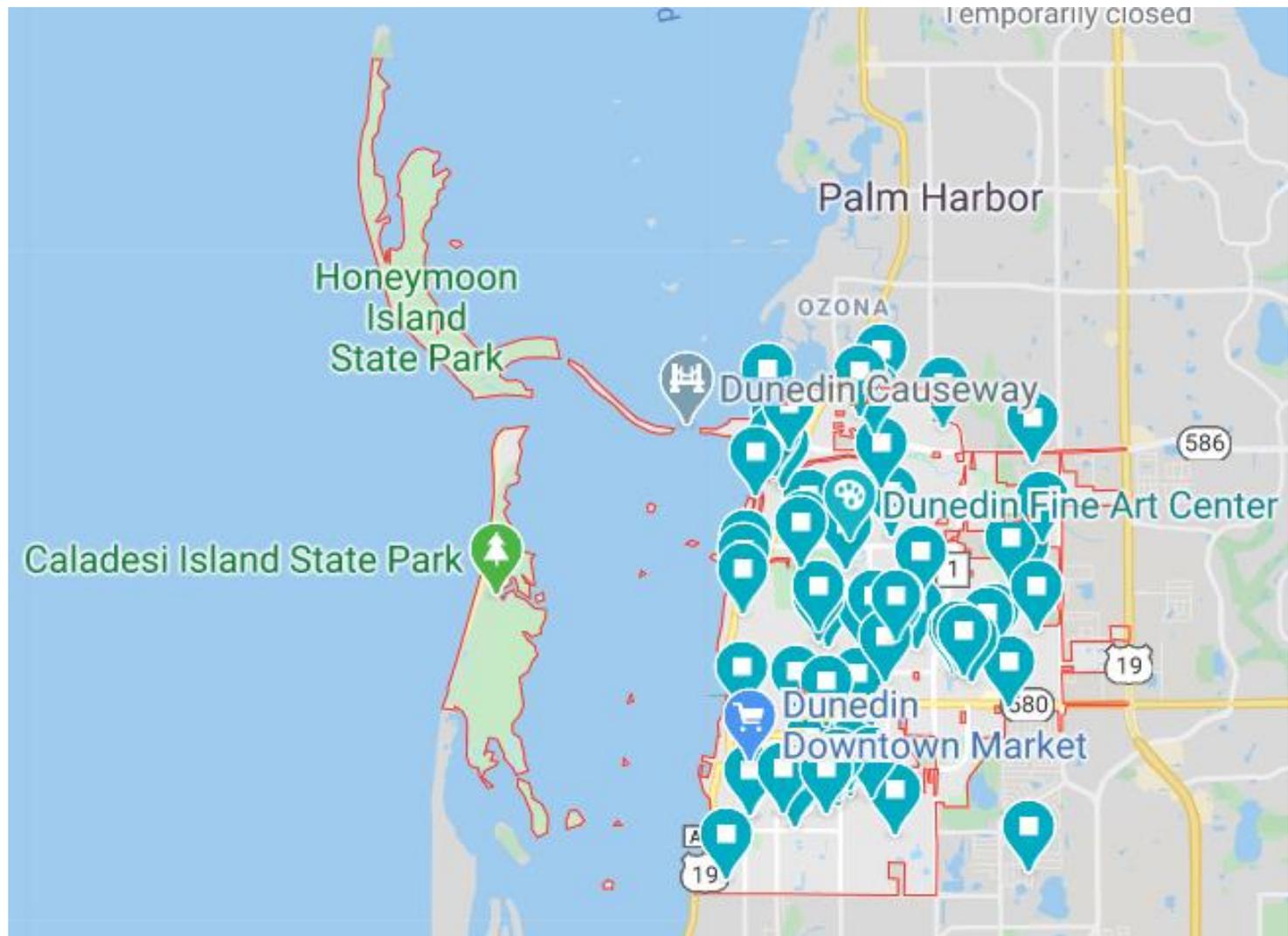




No Yard Debris, Wood or Misc. Items



Dunedin Contamination Map



Dunedin Recycling Guide Sticker Decals

- If you need a new Dunedin Recycling Guide sticker decal for your recycling bin, contact Dunedin Solid Waste at 727-298-3215



[Click to download printable recycling guide](#)

Recycling Tip: Keep it simple!

Tip #1



Recycling Tip: Nothing smaller than your fist!

Tip #2



Small yogurt cups, shredded paper, K-cups, sticky-notes, and loose caps go in the garbage. Either twist caps on tight or remove completely.

No batteries or electronics in the recycling or garbage!



Keep workers safe!

Pinellas County Household Electronics & Chemical Collection Program (HEC3)



Household Electronics & Chemical Collection



Collection events held July through December will be added at a later date. Check www.pinellascounty.org/solidwaste/hec3 for details.

2020 Mobile Collection Events

Jan. 11	East Lake High School	1300 Silver Eagle Dr.
Jan. 25	Countryside High School	3000 State Rd. 580
Feb. 22	Countryside High School	3000 State Rd. 580
Mar. 7	St. Pete College/Gibbs Campus	6605 5 th Ave. N.
Mar. 28 CANCELED	Countryside High School	3000 State Rd. 580
Apr. 4 CANCELED	Tarpon Springs High School	1411 Gulf Rd.
Apr. 25 CANCELED	Countryside High School	3000 State Rd. 580
May 16 CANCELED	Countryside High School	3000 State Rd. 580
June 27	Countryside High School	3000 State Rd. 580

For Countryside High School events, enter off of McMullen-Booth Rd., just north of State Road 580.

What to Bring

Electronics: Laptops, cell phones, TVs, monitors, CPUs/computer towers, power supplies, hard drives, motherboards and tablets.

Chemicals: Paints and painting chemicals, stains, pool and spa chemicals, pesticides, lawn chemicals, all non-alkaline batteries, fluorescent and projector light bulbs, automotive fluids, kerosene, household cleaners, propane tanks under 1 lb., smoke detectors, solvents, adhesives, mercury-containing devices.

BUSINESSES: Visit www.pinellascounty.org/bizwaste

Still not sure what to do with it?

Find out what to do with more than 450 items by visiting:

www.pinellascounty.org/solidwaste/getridofit



All events are on Saturdays from 9 a.m. to 2 p.m.

For Pinellas County residents only. Collections may be delayed or canceled due to severe weather.



For more information about household electronics & chemical collection, including quantity limits, visit www.pinellascounty.org/solidwaste/hec3 or call (727) 464-7500.

FOR EVERYBODY'S SAFETY, PARTICIPANTS MUST BE IN A VEHICLE.

Pinellas County complies with the Americans with Disabilities Act. To obtain accessible formats of this document, please call TDD (727) 464-4062. Produced in cooperation with the Pinellas County Marketing & Communications Dept. Funding provided by Pinellas County Solid Waste. 12/19

Other Recycling Programs

Clothing & Textiles

- Donate
- Give away
- Yard Sale
- Clothing Swap
- Textile recycling



Cooking Oil

Drop off at 810 Lake Haven Rd, Dunedin



Located at: Lake Haven Recycling Drop-off Center – 810 Lake Haven Road

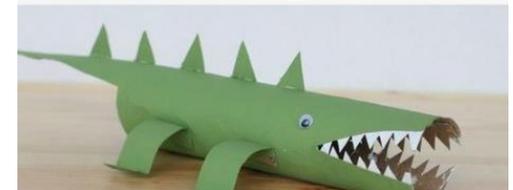
Reuse



Reuse & Upcycle Items!

□ Ask yourself, “How can I reuse this item?”

- Craft
- Storage
- To-go container
- Décor
- Cleaning
- Toys



Reuse, Re-grow, Re-eat!

Reducing food waste is the 3rd most important action in fighting climate change.

[-Drawdown](#)

- [How to grow fruits and veggies from food scraps](#)
- [Using vegetable scraps for broth](#)



Reuse & Upcycle Items!

[Reuse Grow Enjoy Link](#)

Ways to Reuse
everyday items



Reusing helps you reduce the amount of materials you place in the garbage and recycling, which is the goal!

Reuse reusables!

- Don't feel the need to buy new reusable items, use what you have!



DIY Zero-Waste Kit

- Bag
- Cloth napkin
- Tupperware
- Jars
- Fork, knife, spoon
- Reusable water bottle



Reduce

**Reduce
Reuse
Recycle.**

Reduce

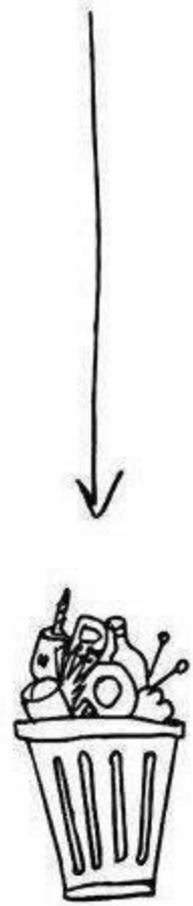
- On average, Americans produce 5.91 pounds of garbage per day.
- **On average, Pinellas County residents produce 12.16 pounds of garbage per day**

Tip of the iceberg!

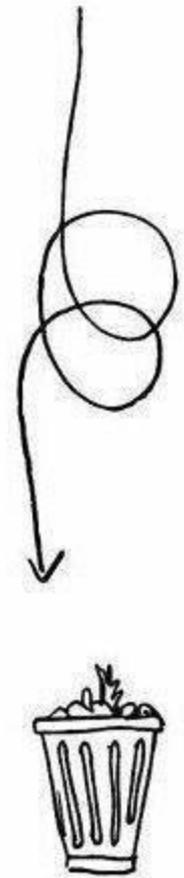


3 days worth of garbage

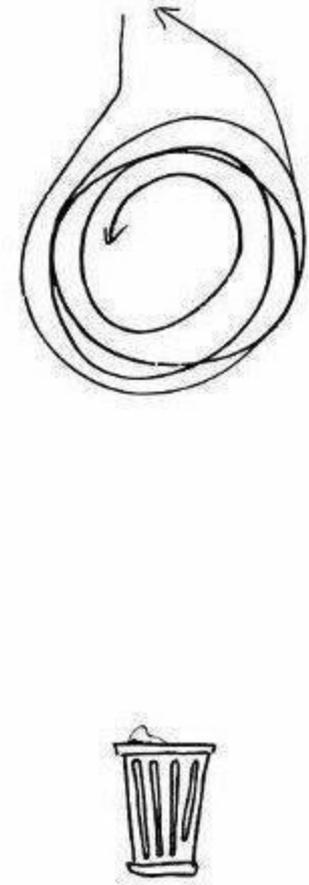
LINEAR ECONOMY



RECYCLING ECONOMY



CIRCULAR ECONOMY



YOU SEE THE DIFFERENCE.
A TURTLE DOES NOT.



MEDASSET
Mediterranean Association
to Save the Sea Turtles



Every Action Counts!

"It's only one straw!"
"It's just one disposable cup"
"It's just one plastic bag"

- Said 8 billion people-



How did humans live before the “throwaway” culture began?



Throwaway Living

DISPOSABLE ITEMS CUT DOWN HOUSEHOLD CHORES

1955

Glasses, forks, and dishes! Oh my!



IT TAKES 8 GALLONS
OF WATER TO MAKE
1 PAPER PLATE.

MODERN DISHWASHERS
USE 3-5 GALLONS FOR
A WHOLE LOAD!





**IT'S PRETTY AMAZING THAT
OUR SOCIETY HAS REACHED A POINT
WHERE THE EFFORT NECESSARY TO**

**EXTRACT OIL FROM THE GROUND,
SHIP IT TO A REFINERY,
TURN IT INTO PLASTIC,
SHAPE IT APPROPRIATELY,
TRUCK IT TO A STORE,
BUY IT, AND BRING IT HOME**

**IS CONSIDERED TO BE LESS EFFORT THAN WHAT IT TAKES
TO JUST WASH THE SPOON WHEN YOU'RE DONE WITH IT.**

Reduce food waste

7 TOP TIPS TO AVOID FOOD WASTE

- Make a plan**: Accompanied by a calendar icon with 'XXXXXX' on it.
- Buy what you need**: Accompanied by a shopping list icon with items: Eggs, Potato, Cheese, Ham, Flour, Bread.
- Be a storing Superhero**: Accompanied by a refrigerator icon with a red cape.
- It's a date**: Accompanied by a calendar icon showing 'JAN 15'.
- Cook what you can eat**: Accompanied by a spoon icon.
- Save what you don't eat**: Accompanied by a stack of labeled containers: 'CHILI - 200', 'CHILI - 100', 'LAGARAT - 100'.
- Compost what's left**: Accompanied by a circular arrow icon.

Reduce plastic use

9 TIPS FOR LIVING WITH LESS PLASTIC



1 Bring your own shopping bag



2 Carry a reusable water bottle



3 Bring your own cup



4 Pack your lunch in reusable containers



5 Say no to disposable straws & cutlery



6 Skip the plastic produce bags



7 Slow down and dine in



8 Store leftovers in glass jars



9 Share these tips with your friends

LESS PLASTIC.

WWW.LESSPLASTIC.ORG.UK

9 REASONS TO REFUSE SINGLE-USE PLASTIC



1 Made from fossil fuels



2 Huge carbon footprint



3 Will still be here in hundreds of years



4 Only a tiny percentage is recycled



5 Leaches toxins into food & drink



6 Causes hormone disruption & cancers



7 Pollutes our oceans



8 Kills marine animals and birds



9 Enters our food chain

TIDE to the OCEAN™

www.WellTribe.com/the-cause/the-problem/

WellTribe

Shop Smart

REUSE



- Make a meal plan – to reduce food and packaging waste
- Use reusable shopping bags
- Use reusable produce bags
- Shop in bulk using reusable containers
- Buy local products
- [55 Ways to Reduce Kitchen Waste](#)



[50 Ways to Live More Sustainably](#)

Shop Smart

Home Waste Audit

Future
idea



Due to health concerns around COVID-19, wait to do a home waste audit until safe to do so.

Quick plug on next webinar!



2020 SUSTAINABILITY SPEAKER SERIES

BACKYARD COMPOSTING IN THE CITY WEBINAR

Learn the ins and outs of correct home composting with
Pinellas Community Compost

THURSDAY, JUNE 11TH, 2020

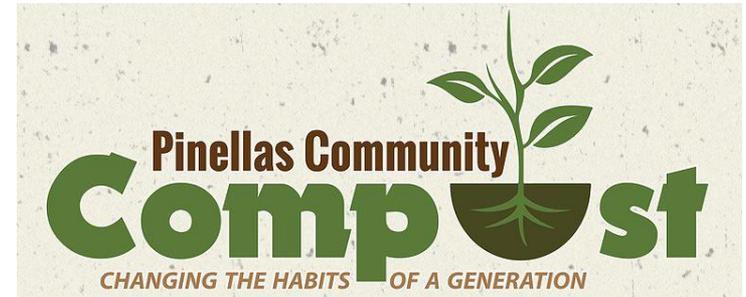
12:00 PM

REGISTER AT:

<https://attendee.gotowebinar.com/register/3115701899673555728>



WWW.DUNEDINGOV.COM/GREENSCENE
727-298-3215 X1324



Thursday, June 11th, 2020

[Register here!](https://attendee.gotowebinar.com/register/3115701899673555728)



=





=



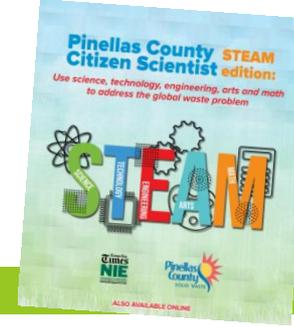


=





Pinellas County STEAM



“The most effective way to reduce waste is to not create it in the first place. Making a new product requires a lot of materials and energy – raw materials must be extracted from the earth, and the product must be fabricated then transported to wherever it will be sold. As a result, reduction and reuse are the most effective ways you can save natural resources, protect the environment and save money.” – Environmental Protection Agency



Benefits of reducing waste

- Prevents pollution by reducing the need to harvest new raw materials
- Saves energy
- Reduces greenhouse gas emissions that contribute to global climate change

- Helps sustain the environment for future generations
- Saves money
- Reduces the amount of waste that will need to be recycled or sent to disposal facilities
- Allows products to be used to their fullest extent

Source: Environmental Protection Agency

Eight simple ways to go zero waste

To reduce means to use less of something. Using less of something, such as packaging, will result in a smaller amount of waste. Source reduction entails reducing waste before something is purchased. You can help reduce waste by purchasing products that are not wasteful in their packaging or use.

A key factor of waste reduction is “conservation – using natural resources wisely, and using less than usual in order avoid waste,” according to the National Institute of Environmental Health Sciences (NIEHS). Here are some suggestions offered by the Pinellas County Department of Solid Waste:

- Get a reusable water bottle. Enjoy your tap water and save money.
- Take your reusable coffee mug to your favorite coffee shop. Hand them your cup when ordering. This may take some courage, but it gets easier.
- Keep a “zero waste kit” with reusable cutlery, napkins and sealable containers.
- Replace cotton balls and makeup wipes with washable cotton pads.
- Find reusable shopping bags that you will remember to bring to the store. There are many options that can fold to fit in your pocket or purse.
- When buying produce, bring your own reusable mesh bag or use a 100 percent cotton pillow case.
- Bring your own straw. There are options that fold up in a case small enough to fit on your keychain.
- Don’t forget to practice reuse. Many of these items can be purchased from the thrift store!

Source: National Institute of Environmental Health Sciences



Citizen Scientist ACTIVITY

THE PROBLEM: We live in a “make, take, dispose of” culture that thrives on convenience. Packaging – much of it single-use food wrapping and containers – has created a worldwide trash problem. What happens to all of those single-serve snack, water, juice and soda containers people no longer need? How can people reduce the amount of waste they produce?

Points to ponder

- What are some packaging options and alternative materials for packaging items to decrease waste?
- Rachelle Strauss of the United Kingdom’s ZeroWasteWeek says, “We never actually throw anything ‘away’ – it’s really just put somewhere else.” How can we reduce the waste in the first place?
- Ordering food from restaurants or picking up a quick premade meal from the grocery store, fast food restaurant, sub shop or deli is convenient and quick. Are there ways to reduce packaging to eliminate waste when the food or drink is finished?
- How can we change packaging to make it more recyclable?

The steps

- Identify the need:** Define and clarify the issue you want to investigate. Working in small groups, brainstorm the problem and the information presented. Create a chart listing what you know, what you need to know and what you hope to learn. Write down all your ideas – there are no bad ideas when brainstorming.
- Learn and study:** Research the background and issue. Research the problem and the points to ponder. Come up with your own ideas based on your own experiences. Then, choose one of the issues you brainstormed to focus on. What specific part of this issue are you looking to solve? Use the following sources to assist with your research:
 - Tampa Bay Times* newspaper, paying special attention to the advertisements
 - Pinellas County Recycle Guide* – Go to tampabay.com/nie. Click on “Science” under the Curriculum tab.

- Pinellas County Solid Waste, pinellascounty.org/solidwaste/ recycle
- Tampa Bay Recycles, tampabayrecycles.org
- Environmental Protection Agency, epa.gov
- National Institute of Environmental Health Sciences, kids.niehs.nih.gov/topics/reduce/reduce-waste
- national Geographic.com/environment/2019/06/you-eat-thousands-of-bits-of-plastic-every-year
- apps.npr.org/plastics-recycling

- Collaborate:** With your group, brainstorm possible solutions and ideas to help solve the problem. Write down your ideas in outline, web or chart form.
- Draft:** Evaluate the alternatives and select the most promising solutions.
- Create:** On paper, write out your ideas in a comprehensive fashion. Next, be creative. Present your ideas in a graphic organizer, blueprint, drawing, Sketch 3 dimensional rendering, cartoon or advertisement.
- Share:** Present your ideas to the class and receive feedback that you will use for your final report.
- Report:** Finalize your ideas. Using the *Tampa Bay Times* articles you found in Step 2 as models, write an article addressing the problem and possible solutions.

Science Standards: SC.612.L.17.12; SC.612.L.17.14; SC.612.L.17.15; SC.612.L.17.17; SC.612.L.17.20; SC.612.N.15; SC.612.N.1.2; SC.612.N.1.3; SC.612.N.1.7; SC.612.N.4.1; SC.612.N.4.2 **Visual Arts Standards:** VA.612.C.1.1; VA.612.C.1.2; VA.612.C.1.5; VA.612.C.1.7; VA.612.C.1.8; VA.612.F.1.2; VA.612.F.1.4; VA.612.F.2.4; VA.612.F.3.6; VA.612.F.3.8



DunedinGov.Com/GreenScene



[Services](#)
[Live/Work/Play](#)
[City Departments](#)
[About](#)

- Dunedin COVID-19 Updates
- + Events Calendar
- Dunedin-Best Kept Secret in Tampa Bay
- Dunedin Green Scene
 - Green Scene News
 - Environmental Calendar
 - Living Green
 - Reduce Kitchen Waste**
 - Green Businesses Directory
 - Sustainability Tips
 - The 7 R's: Refuse, Reduce, Repurpose, Reuse, Recycle, Rot, Rethink
- + Green City
- Sustainable Schools
- + Green Businesses
- + Getting Around
- LiveWell Dunedin



Reduce Kitchen Waste

Live Sustainably

55 Ways to Reduce Kitchen Waste

A great place to start reducing waste in your home is the kitchen!

1. Use reusable grocery bags when grocery shopping.
2. Use reusable produce bags when shopping.
3. Shop at local markets.
4. Purchase items with less packaging.
5. Avoid plastic and Styrofoam as much as possible.
6. Skip the straw! Simply say no thank you, or bring your own

< MAY 2020 >

S	M	T	W	T	F	S
26	27	28	29	30	<u>1</u>	2
<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>
10	<u>11</u>	12	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>

DunedinGov.Com/Recycling



Services

Live/Work/Play

City Departments

About

Find it fast...



Service

Government

City Clerk

Commission Minutes

Boards and Board

Archived

Code of Ordinances

Elections

2020 Campaign Reports

Municipal Council

City Hall

City Commission

Coffee with the Mayor

City Manager

Happy 20th Anniversary Jennifer K...

- Public Works & Utilities

+ Engineering Division

Engineering Staff Directory

Fleet Services

+ Public Services

Public Works & Utilities FAQ

+ Reclaimed Water

- Solid Waste & Recycling

Residential Garbage Services

Holiday Collection Schedule

Business/Commercial Services

Temporary Dumpsters/Claw Services

Yard Waste & Bulk Item Services

Appliances, Electronics, and Chemicals

Solid Waste FAQ

- Recycling

[City Departments](#) » [Public Works & Utilities](#) » [Solid Waste & Recycling](#) »

Recycling

Font Size: [Share & Bookmark](#) [Feedback](#) [Print](#)

Help Keep Dunedin Delightful, Recycle!



[Check out the City's Recycling Video for tips!](#)

Curbside Recycling

The City provides all single-family homes a recycling cart included in monthly collection services. Recycling service is provided by a private contractor, currently Waste Pro. The City's Solid Waste Division manages the private contract and serves as the liaison to issues and requests. Service days occur on the same day as garbage and bulk/yard waste collection. Residents use this service at no additional cost.

Check your cart lid label for acceptable and unacceptable items.

Resources & Links

- [Dunedin Green Scene](#)
 - [50 Ways to Live More Sustainably](#)
 - [55 Ways to Reduce Kitchen Waste](#)
 - [7 R's of Sustainability](#)
- [Dunedin Recycling Program](#)
 - [Printable Recycling Guide](#)
- [Pinellas County Recycling Guide](#)
- [Pinellas County Zero Waste & STEAM](#)
- [Pinellas County Household Electronics & Chemical Collection](#)
- [Pinellas County Master Plan \(Zero Waste\)](#)

Resources & Links Continued

- [Home Waste Audit](#)
- [Ways to Reuse Everyday Items](#)
- [Regrow food from food scraps](#)
- [Homemade vegetable broth from food scraps](#)
- [DRAWDOWN project](#)
- **Videos:**
 - [Materials Recovery Facility \(Recycling Sorting Plant Video\)](#)

Questions?

- Use the chat box to submit questions!



Contact

Natalie Gass
Sustainability Coordinator
City of Dunedin

ngass@dunedinfl.net

727-298-3215

x1324

