Climate on Tap 'What's Recyclable in Jefferson County?'

Facilitator:
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What will be covered today:



- How did we get into this mess?
- Why is it so difficult to know what to recycle?
- Where does our recycling go and what does it become?
- How can we reduce contamination and keep our recycling marketable?

Sort the objects into three categories:



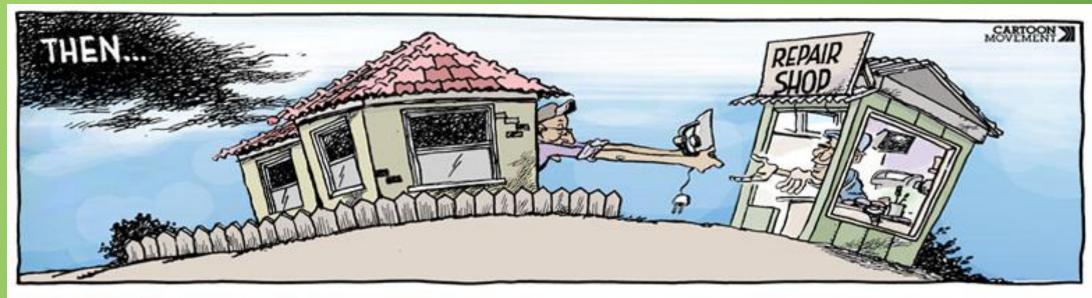
1. CAN be recycled in Jefferson County

2. CAN'T be recycled in Jefferson County

3. I'm not sure



A clip from "The Graduate". This was made in 1967. We thought it was funny then. It was prophetic. https://www.youtube.com/watch?v=eMtLdE5Zq-8







66 million tons of recycling goes into landfills every year in the U.S.

We have been outsourcing our paper and plastic to China



China has tried to address this problem for years

- "Green Fence" in 2013
- "National Sword" in 2017
- "Blue Skies 2018"





Some historical context ...

- Numbers with arrows were invented by the plastics industry in the 80's to indicate the main type of plastic in the item
- They were incorporated before there were factories that could recycle them. It was simply 'greenwashing'
- Only #1 and #2 have any real value in today's market



Polyethylene Terephalate Ethylene

PETE goes into soft drink, juice, water, detergent, and cleaner bottles. Also used for cooking and peanut butter jars.



High Density Polyethylene

High Density Polyethylene HDPE goes into milk and water jugs, bleach bottles, detergent bottles, shampoo bottles, plastic bags and grocery sacks, motor oil bottles, household cleaners, and butter tubs.



Polyvinyl Cloride

PVC goes into window cleaner, cooking oils, and detergent bottles. Also used for peanut butter jars and water jugs.



Low Density Polyethylene

LDPE goes into plastic bags and grocery sacks, dry cleaning bags, flexible film packaging, and some bottles.



Polypropylene

PP goes into caps, disks, syrup bottles, yogurt tubs, straws, and film packaging.



Polystyrene

PS goes into meat trays, egg cartons, plates, outlery, carry-out containers, and clear trays.



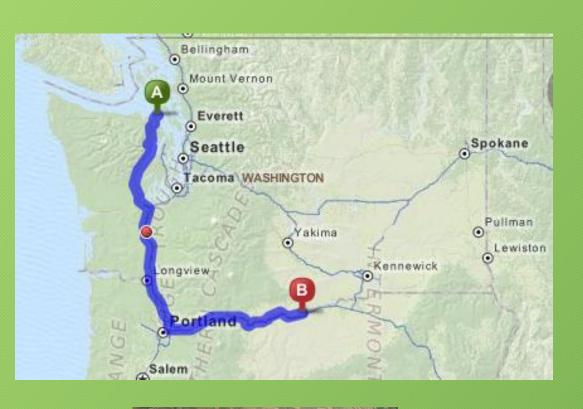
Other

Includes resins not mentioned above or combinations of plastics.

Why the numbers are outdated and misleading

Notes: Show demo of the various types of #1s

Where does our trash go?







Our trash goes all the way to Roosevelt Regional Landfill near Richland, about 350 miles from here.



Jefferson County sends 19,000 tons of garbage there (38,000,000 lbs.), about 3 big trucks every day.

The average garbage can contains this amount of Materials.



The 'single stream' recycling dilemma

- Waste haulers found it was a more efficient system than 'source separation'.
- More people recycled, but the recycling was more contaminated
- Giant Materials Recovery Facilities (MRFs) were built



Photos of a MRF (materials recovery facility); where Our tin, aluminum and plastic go



The 'single stream' recycling dilemma

- Waste haulers found it was a more efficient system than 'source separation'.
- More people recycled, but the recycling was more contaminated
- Giant Materials Recovery Facilities (MRFs) were built
- Contamination rate is still high
 Single stream recyclables = up to 40% becomes garbage
 Source separated recyclables = 2-5% becomes garbage

What can we recycle?





First, keep your recycling CLEAN and EMPTY!









Bin #1 – cans: tin and aluminum







What happens to recycled cans?







Bin #1 - plastic: bottles, jugs, jars, and tubs



What happens to recycled bottles?











"Wish Cycling"



Then an elf takes it to a magical place ...



Where a fairy turns it into something useful!

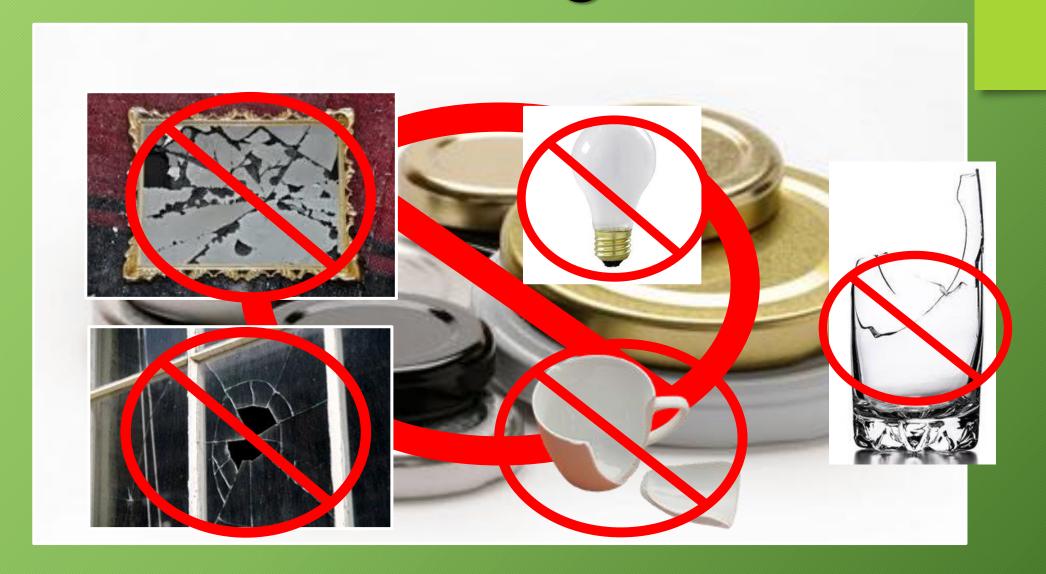




Here are four things that can happen when you wish cycle instead of recycle:

- It takes longer to sort recycling, which costs recycling programs more money.
- Items that are recyclable, but not through your curbside pickup such as electronics never get recycled. Instead, they end up in landfills.
- Other items that are recyclable, but not through your curbside pickup such as plastic bags and extension cords jam and damage sorting machinery.
- Recycling is most economical when people recycle only clean materials that can be sold to make new goods. So when we recycle only what is accepted, it keeps down the cost to run our recycling program.

Bin #2 - glass



What can you make with recycled paper?





Bin #3 - paper







Bin #4 - cardboard

CORRUGATED
CARDBOARD
only!



Bin #4 - cardboard



boxes with corrugated dividers

Please flatten boxes!

What can you make with recycled cardboard?







More boxes!

Bin #4 - cardboard





Round 2:

Sort the objects into three categories:



1. CAN be recycled in Jefferson County

2. CAN'T be recycled in Jefferson County

3. I'm not sure



- Green, brown and clear glass bottles
 - Clear glass jars



- office paper
 junk mail
 paper bags
- magazines newspaper cartons
- phone bookstoilet paper rolls



- bottles
 jugs
 tubs
 - rigid pots & buckets
- tin cansmetal lids
 - aluminum cans

Our motto: When in doubt, throw it out!









Where does our recycling go?







... works hard to find nearby reliable markets for our recycling, saving us money, precious resources, and reduces our carbon footprint!









Seattle, WA



Plastic bags and film become plastic lumber



















Plastic bags & film can be dropped off at these locations:







These bags cause serious problems when they get caught in the sorting machinery at the MRF.



The tricky ones!















Why are plastics a problem?











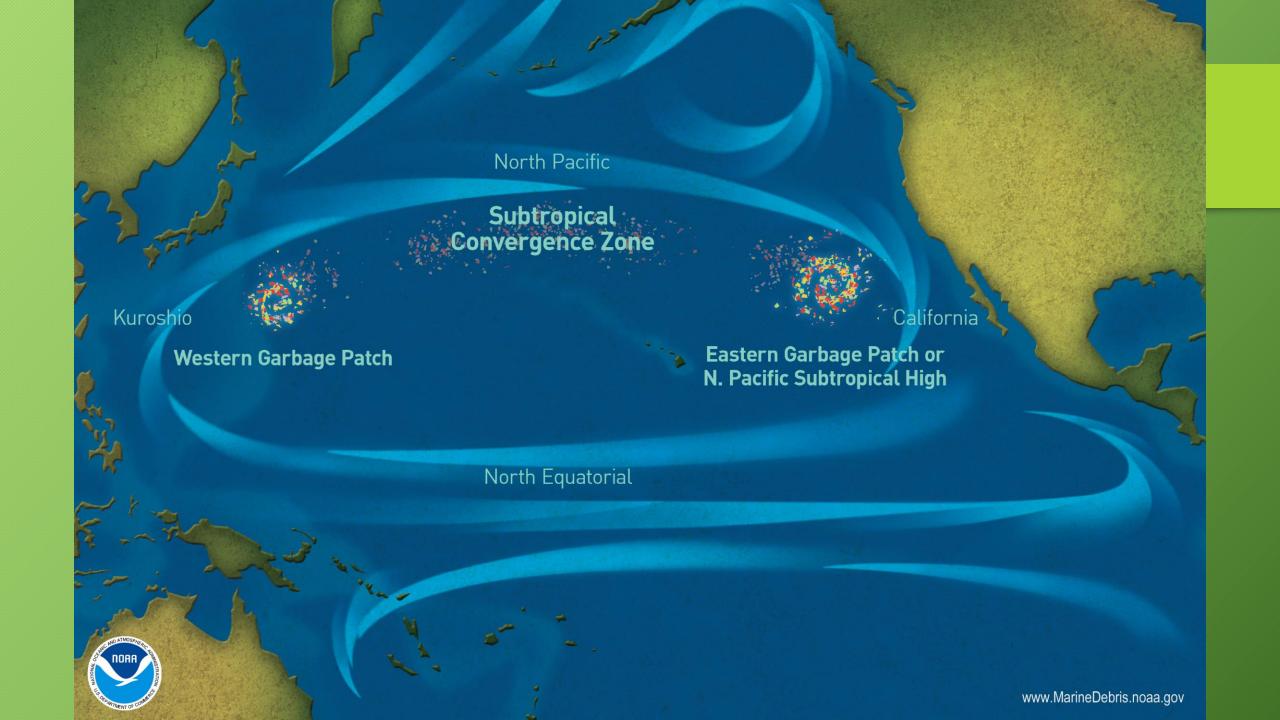
HOW LONG UNTIL IT'S GONE?

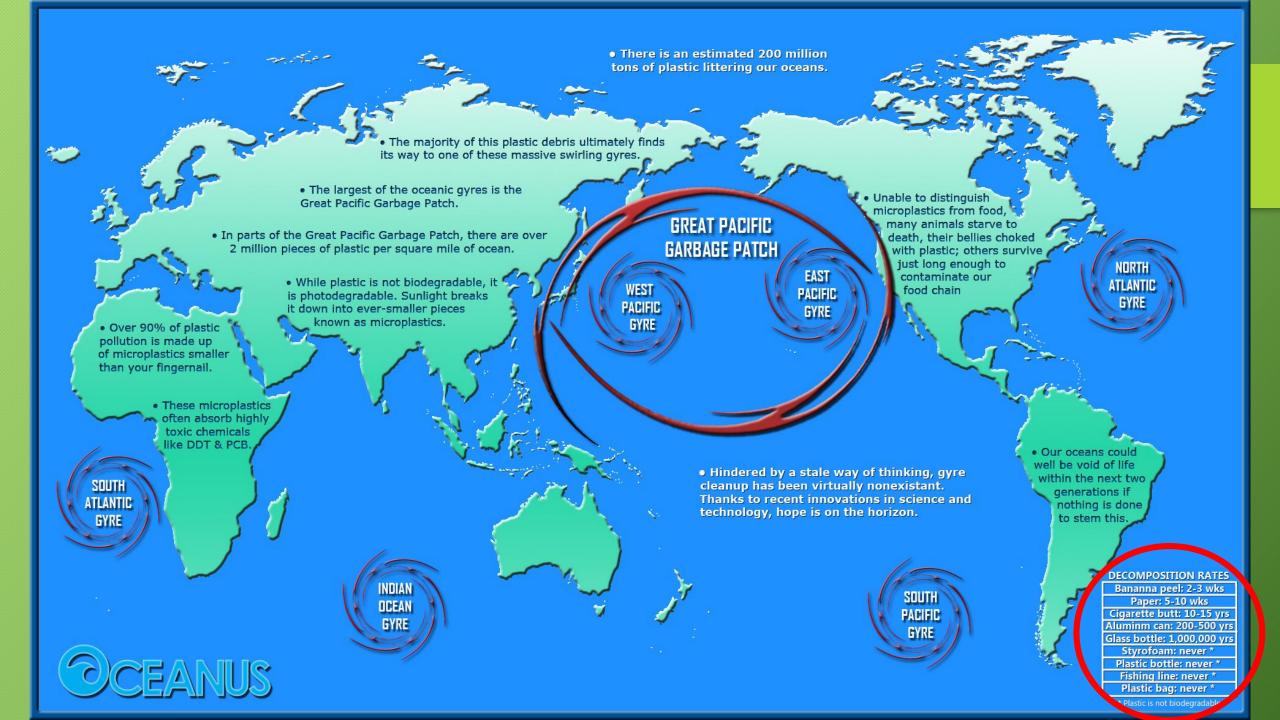
Estimated decomposition rates of common marine debris items



Estimated individual item timelines depend on product composition and evironmental conditions.

Source: NOAA (National Oceanic and Altmospheric Administration), US / Woods Hole Sea Grant, US Graphics: Oliver Lüde / Museum für Gestaltung Zürich, 2HuK





Negative health effects from plastics











Inverted Waste Pyramid

REFUSE

REDUCE

REUSE

ROT

RECYCLE

LANDFILL

Most desirable

Least desirable

Inverted Waste Pyramid

REFUSE REDUCE REUSE ROT RECYCLE LANDFILL If we don't use our landfills for those things that can't/shouldn't be recycled, it ends up in the ocean and on the land.





What can we do to stay in the top layers?







Inverted Waste Pyramid

REFUSE

REDUCE

REUSE

ROT

RECYCLE

LANDFILL

Climate on Tap

Thank you for coming! Questions?

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