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

## Facilitator: Laura Tucker

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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


## Why the numbers are outdated and misleading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 看1- plastic: bottles, jugs, jars, and tubs



## What happens to recycled bottles?



THE COLOR OF THE BOTTLE IS THE COLOR OF THE SHIRT. NO DYES.



## "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 \#\#



## Bin ${ }_{i j} 4$ - cardboard



## Bin \#4 - cardboard


boxes with corrugated dividers


## What can you make with recycled cardboard?



## Bin \#4 - cardboard



## 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 books • toilet paper rolls |



# 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 SKOOKUMI resources, and reduces our carbon footprint! Contract Services


Kent, WA


## Plastic bags and film become plastic lumber



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



SAFEWAY ()

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




## Negative health effects from plastics



Inverted Waste Pyramid

RETUSE
REDUCE
REUSE
ROT


Most desirable


Least desirable

Inverted Waste Pyramid

## REPUSE

## REDUCE

REUSE
ROT
Recyella


Inverted Waste Pyramid

## What can we do to stay in the top layers?

## REASE

## REDUCE

 REUSE ROT

## Climate on Tap

## Thank you for coming! Questions?

Facilitator: Laura Tucker<br>Ltucker@co.Jefferson.wa.us

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