

*City of Arts & Innovation*

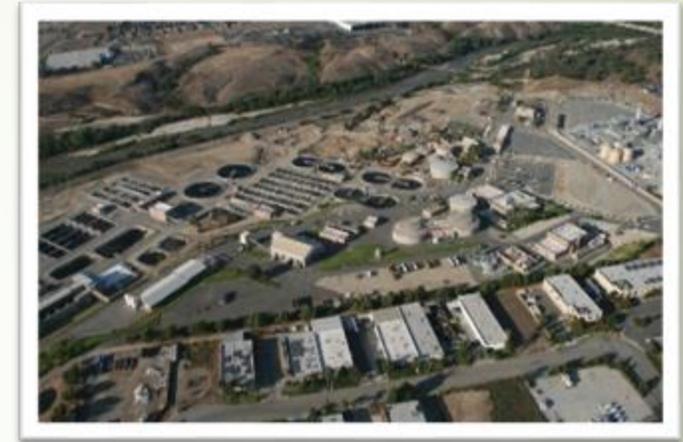
# Recycling 101

City of Riverside, Public Works

Solid Waste Division

# Public Works Department

- Engineering
- Land Development
- Parking
- Sewer
- Stormwater
- Street Maintenance
- Trees & City Landscaping
- Solid Waste: Trash & Recycling
- Traffic Engineering



# Solid Waste Division

- Residential Collection
  - City & Franchise Hauler
- Street Sweeping
- Mitigation
- Commercial Collection
  - Franchise Hauler agreement
- Used Oil Program
- Beverage Container Recycling
- Education & Outreach



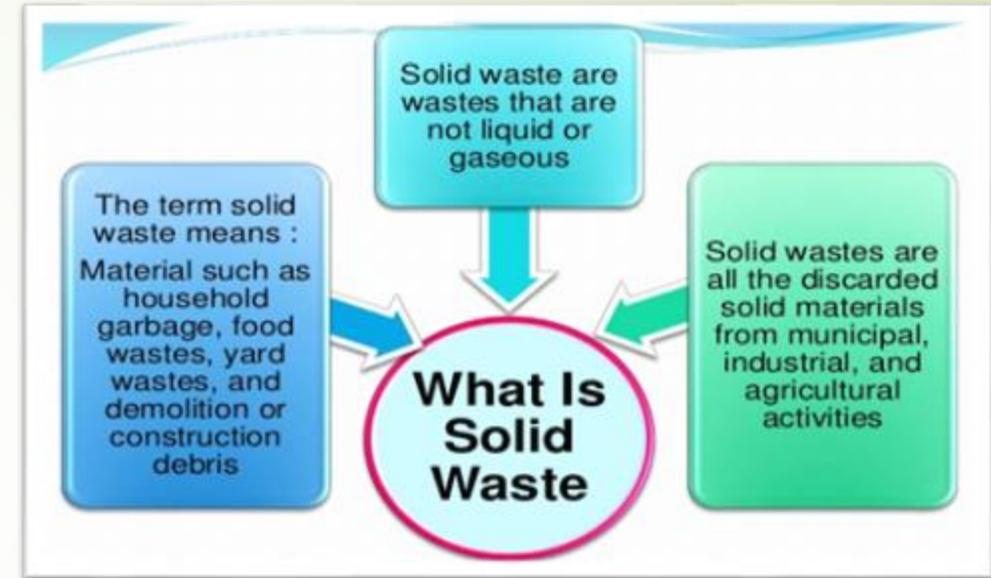
# City of Riverside Trash & Recycling Programs

- ▶ Weekly collection
  - ▶ Blue – Recycling
  - ▶ Green – Green Waste
  - ▶ Brown – Trash
- ▶ CURE Events
  - ▶ 2 Corporation Yard
  - ▶ 2 Multi Site
  - ▶ 3<sup>rd</sup> Saturday each Month (no charge)
    - ▶ Robert A. Nelson Transfer Station/Material Recovery Facility
    - ▶ Free Mulch
- ▶ Curbside programs
  - ▶ Bulky
  - ▶ Used Oil



# What is solid waste? What is the waste stream?

- The total flow of solid waste from homes, businesses, institutions, and manufacturing plants that is recycled, composted or disposed of in landfills, or segments thereof such as the "residential waste stream" or the "recyclable waste stream."
- How are we reducing waste?
  - What more can we do...
    - At Home
    - At School
    - At Work
    - Public venues



# Why is it important to Recycle

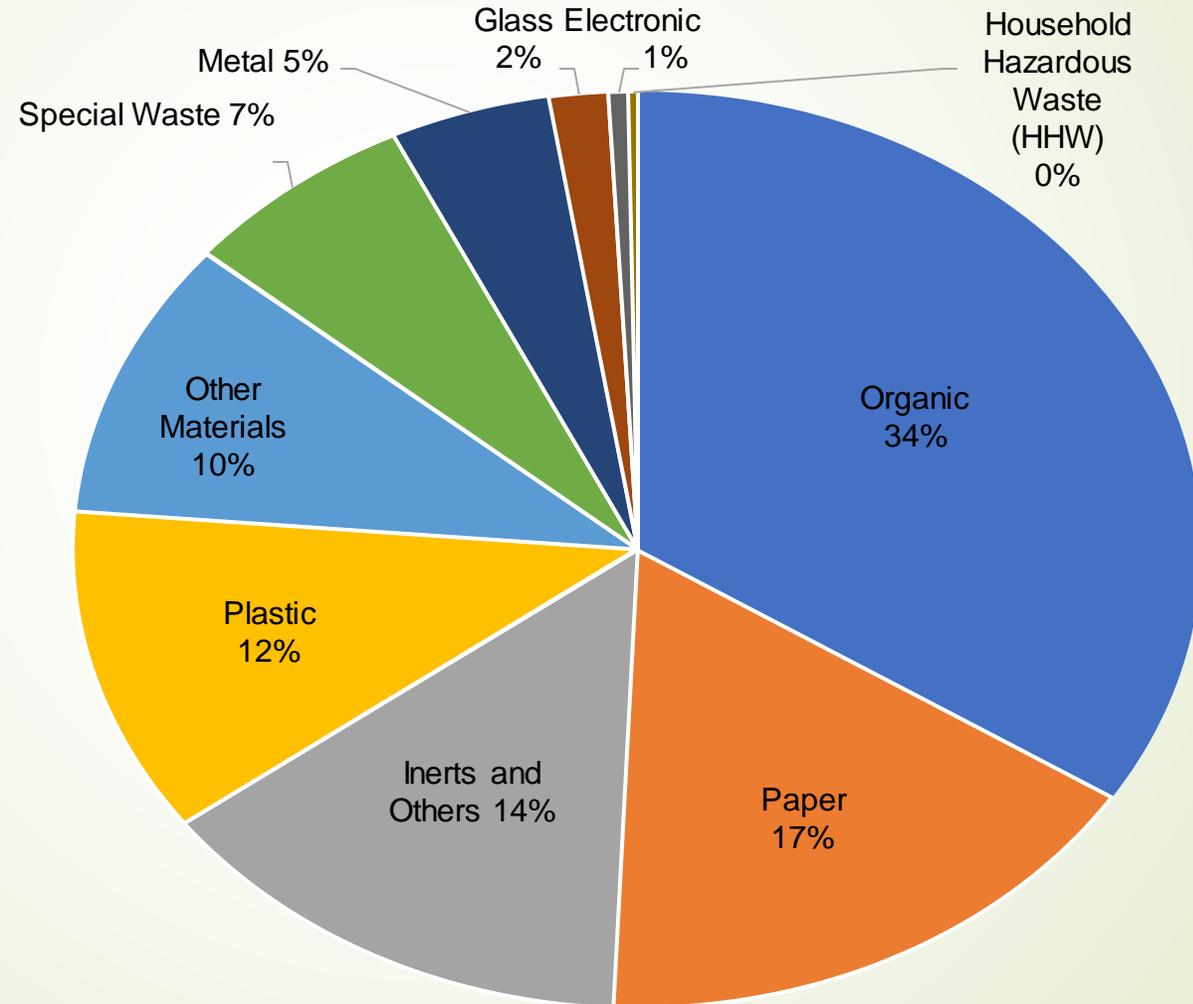


- Recycling converts waste into useful products and conserves natural resources.
- Recycling is a great way to protect the environment.

Did you know that:

- Recycling 1,000kg of paper saves 17 trees.
- Recycling an aluminum can saves 95% of the energy used to make a new one.
- Recycling a glass bottle saves 30% of the energy used to make a new one.

2018 California's Overall Disposed Wastes Stream  
CalRecycle Publication #DRRR-2020-1666  
<https://www2.calrecycle.ca.gov/Publications>



# Business Recycling

- Mandatory Commercial Recycling (AB 341)
  - 4 cubic yards or more must recycle
  - 5 MF dwelling units or more must recycle
- Recyclables includes, but are not limited to, plastic, glass, cardboard, and newspaper.

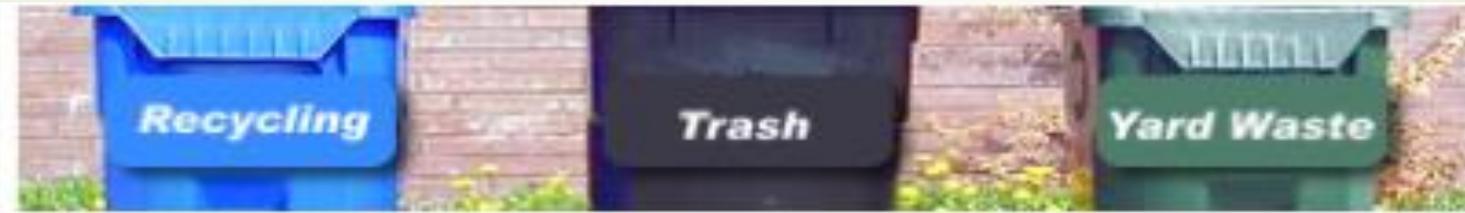


# Business Recycling



- ▶ Mandatory Organics Recycling (AB 1826)
  - ▶ 2 cubic yards or more of organics must recycle (2020)
  - ▶ 4 cubic yards or more of organics must recycle (2017)
- ▶ Organic waste (also referred to as organics) includes landscape waste, green waste and pruning waste, food waste, and non-treated wood. Multi-family dwellings' organics recycling is specific to landscape waste only (not food waste).
- ▶ Examples of "food waste" includes solid, semisolid, and liquid food, such as, fruit, vegetables, cheese, meat, bones, poultry, seafood, bread, rice, pasta, and oils; coffee grounds and filters and tea bags; cut flowers and herbs; and any putrescible matter produced from human or animal food production, preparation, and consumption activities. Food waste includes food-soiled paper.

# Managing your waste



## Blue Barrel Recyclables

- Cans/Foil
- Cardboard
- Glass Bottles and Jars
- Metal
- Milk Jugs
- Milk/Soy Cartons (paper and aseptic)
- Mixed Paper
- Plastic Bags (bundled)
- Plastic Shopping Bags
- Plastics 1-7
- Styrofoam

## Brown Barrel Trash

- Animal Waste
- Cactus
- Household Waste
- Soiled Products
- Trash
- Yucca
- Other Waste

## Green Barrel Green Waste

- Grass Clippings
- Leaves
- Palm Fronds
- Shrubs
- Tree Branches
- Weeds
- Yard Clippings

# What can I Recycle?



## RECYCLABLES ONLY



**No Food. No Liquids.**



**PAPER**



**METAL**



**PLASTIC**



**GLASS**

— Rinse before recycling —



**Tissue Paper**



**Styrofoam &  
Food-stained Items**



**Bulky Items**



**Reusables**  
(Donate them instead)

# Recycle: How & What?

- Glass
  - If its in your pantry...
  - Drink bottles
- Metals
  - Aluminum, Tin, Steel



# Recycle: How & What (cont'd)

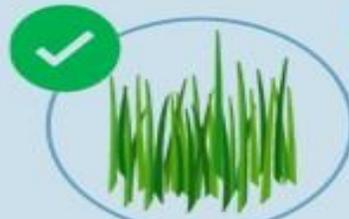
- Paper (Fiber)
  - Mixed Paper, Cardboard, Paperboard
- Plastics
  - 1-7 (bottom of containers)
  - Styrofoam!



Symbol	Acronym	Full name and uses
	PET	Polyethylene terephthalate - Fizzy drink bottles and frozen ready meal packages.
	HDPE	High-density polyethylene - Milk and washing-up liquid bottles
	PVC	Polyvinyl chloride - Food trays, cling film, bottles for squash, mineral water and shampoo.
	LDPE	Low density polyethylene - Carrier bags and bin liners.
	PP	Polypropylene - Margarine tubs, microwaveable meal trays.
	PS	Polystyrene - Yoghurt pots, foam meat or fish trays, hamburger boxes and egg cartons, vending cups, plastic cutlery, protective packaging for electronic goods and toys.
	Other	Any other plastics that do not fall into any of the above categories. For example melamine, often used in plastic plates and cups.

# Recycle How & What? (cont'd)

## What Belongs in My Yard Waste Container?



Grass Clippings



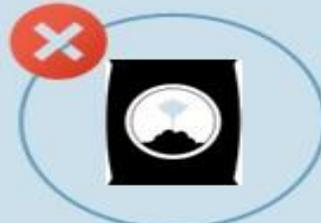
Dead Plants



Sticks/Branches



Leaves



Mulch &  
Fertilizer Bags



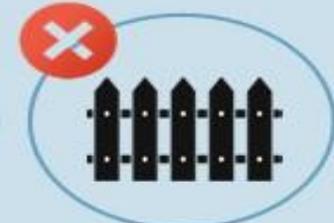
Rock or Brick



Plastic Pots



Dirt/Sod



Plastic barriers or  
fencing

# Lowering Contamination- not for the recycling cart

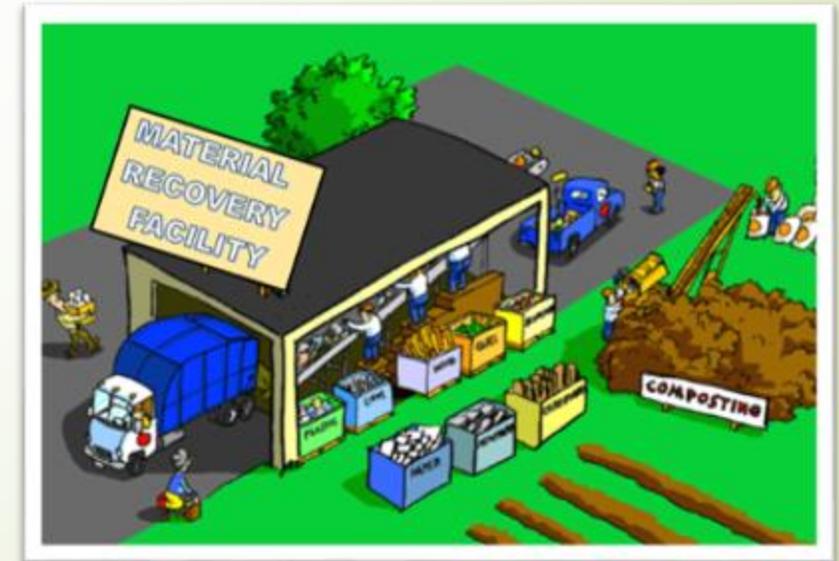
- ▶ Textiles
  - ▶ Clothing, bedding, upholstery
- ▶ Glass/Ceramics
  - ▶ Windows, Glasses, Plates/Mugs, Toilets
- ▶ Universal Waste
  - ▶ Electronics, batteries, computers, cell phones
- ▶ Medical
  - ▶ Sharps/Needles/Lancets, medical waste
- ▶ Pet food bags
- ▶ Food waste
- ▶ Household trash
  - ▶ Bathroom waste
  - ▶ Pet waste
  - ▶ Diapers

*If it's not broken,  
Reuse or Donate*



# Material Recovery Facility (MRF)

- ▶ Robert A Nelson Transfer Station & MRF!
- ▶ Doesn't the contamination get sorted out?
  - ▶ Yes...but contamination ruins recycling!
  - ▶ It can ruin machinery
  - ▶ Injure employees
- ▶ Where does it go?
  - ▶ Once sorted...
  - ▶ Waste is packed into bundles
  - ▶ Sent to third party processors...
  - ▶ Becomes new items!



# Waste Reduction Efforts

- Reduce
  - Buy food in bulk
  - Bring your own bags
  - Print when necessary or double sided
  - Choose products with reduced packaging
- Reuse materials
  - Repurpose household items
  - Donate clothing
  - Donate furniture/building materials





# Here Comes the Facts from CalRecycle:

- ▶ In California, **about 24.5 billion** California Refund Value (CRV) eligible containers were sold in 2018. Of those, **more than 18.5 billion** were recycled!
- ▶ Since **6 billion bottles and cans** ended up in the landfill, nobody claimed the CRV on them. How much CRV? More than \$100 million worth!
- ▶ **CRV is 5¢** for bottles and cans less than 24 ounces, and **10¢** for larger ones.
- ▶ **CRV refunds are available to anyone**--consumers, companies, or nonprofits--who returns bottles and cans to a recycling center.
- ▶ For every **10 pounds of aluminum** you recycle, you eliminate **37 pounds of carbon emissions** from the air.
- ▶ For every **10 pounds of clear plastic** water or soda bottles, **3.3 pounds of carbon emissions** disappear.
- ▶ In a landfill, aluminum cans take **80-100 years** to break down.
- ▶ Plastic bottles hang around as long as **700 years**.
- ▶ Glass bottles spend **1 million years** waiting around to decompose.

# So, you think you can sort?

- ▶ Game time!
  - ▶ Teams
  - ▶ Sort the items into the correct bucket
  - ▶ Beat the clock if you can!
  - ▶ The winner is...



# Household Hazardous Waste

➤ Residents may dispose of household hazardous waste every non-holiday Saturday from 9 am-2 pm at the Agua Mansa Permanent HHW Facility, located at 1780 Agua Mansa Road, Riverside, 92509.

➤ <http://www.riversideca.gov/publicworks/trash/HHW-2016.pdf>

### ACCEPTABLE MATERIALS

These items are examples of materials accepted for FREE at any Permanent or Temporary HHW Collection

**Load limits:  
15 gallons or  
125 pounds**

	<ul style="list-style-type: none"><li>• Paint</li><li>• Paint thinner</li><li>• Epoxies</li><li>• Adhesives</li><li>• Paint stripper</li><li>• Wood stain</li></ul>	<ul style="list-style-type: none"><li>• Shellacs</li><li>• Turpentine</li><li>• Resins</li><li>• Caulking</li><li>• Varnishes</li><li>• Wood preservative</li></ul>
	<ul style="list-style-type: none"><li>• Used Oil &amp; Filters</li><li>• Gasoline &amp; Diesel</li><li>• Lighter fluid</li><li>• Brake fluid</li></ul> <p>(Flammable liquid containers cannot be returned)</p>	<ul style="list-style-type: none"><li>• Antifreeze</li><li>• Automotive chemicals</li><li>• Kerosene lamp oil</li><li>• Transmission fluid</li></ul>
	<ul style="list-style-type: none"><li>• Batteries</li><li>• Smoke detectors</li><li>• Cooking Oil</li></ul>	<ul style="list-style-type: none"><li>• Fluorescent tube &amp; bulbs</li><li>• Mercury devices</li><li>• Light Ballasts</li></ul>
	<ul style="list-style-type: none"><li>• Televisions</li><li>• Monitors</li></ul>	<ul style="list-style-type: none"><li>• Computers</li><li>• Electronic devices</li></ul>
	<ul style="list-style-type: none"><li>• Pesticides</li><li>• Poisons</li><li>• Moth balls</li><li>• Flea powder</li></ul>	<ul style="list-style-type: none"><li>• Herbicides</li><li>• Fertilizers</li><li>• Garden chemicals</li><li>• BBQ Propane tanks</li></ul>
	<ul style="list-style-type: none"><li>• Cleaners</li><li>• Aerosol cans</li><li>• Drain openers</li><li>• Disinfectants</li></ul>	<ul style="list-style-type: none"><li>• Cosmetic chemicals</li><li>• Pool chemicals</li><li>• Laundry chemicals</li><li>• Degreasers</li></ul>
	<ul style="list-style-type: none"><li>• Needles</li><li>• Sharps</li><li>• Unused medication (except controlled substances)</li></ul>	<p><b>Protect our workers. Sharps must be in sealed hard plastic containers. NO loose sharps!</b></p>

# Questions? More Info & Resources

- ▶ Christina Navaratnam, [cnavaratnam@riversideca.gov](mailto:cnavaratnam@riversideca.gov)
- ▶ Stop Junk Mail <http://www.calrecycle.ca.gov/ReduceWaste/Home/JunkMail.htm>
- ▶ Find a recycling center [www.bottlesandcans.com](http://www.bottlesandcans.com)
- ▶ Household Hazardous Waste Collection:  
<https://www.rcwaste.org/Portals/0/Files/HW/HHWflyer.PDF>
- ▶ Other donation sites
  - ▶ <http://www.habitat.org/restores>
  - ▶ <http://www.goodwill.org/>
- ▶ Compost workshops [www.rcwaste.org](http://www.rcwaste.org)
- ▶ Get involved!
  - ▶ <http://keepcabeautiful.org/>
  - ▶ <http://www.krcb.com/>
  - ▶ <https://www.calrecycle.ca.gov/>

