

**Fortino Morales III**  
**Sustainability Officer, University of California, Riverside**



Fortino Morales III is the Sustainability Officer at the University of California, Riverside campus. As the Sustainability Officer, he leads zero waste, greenhouse gas, and Green Labs initiatives at UCR. He also serves on the Committee of Sustainability, which facilitates and promotes the implementation of sustainability goals, strategies, and resources investments in support of UCR's overall sustainability policies and practices. He received both his B.S. in Environmental Sciences and his Masters of Public Policy from UC Riverside.

# Office of Sustainability: Zero Waste Initiative

RivCo Recycle Summit  
November 17<sup>th</sup>, 2020

Fortino Morales  
Sustainability Officer

# Land Acknowledgement

We at UCR would like to respectfully acknowledge and recognize our responsibility to the original and current caretakers of this land, water, and air: the Cahuilla [ka-wee-ahh], Tongva [tong-va], Luiseño [loo-say-ngo], and Serrano [se-ran-oh] peoples and all of their ancestors and descendants, past, present, and future. Today this meeting place is home to many Indigenous peoples from all over the world, including UCR faculty, students, and staff, and we are grateful to have the opportunity to live and work on these homelands.

For more information on native tribes in your area visit: <https://native-land.ca/>

# UC-wide Policy on Sustainable Practices

01 Green Building Design

02 Clean Energy

03 Climate Protection

04 Sustainable Transportation

05 Sustainable Building and Laboratory Operations

06 Zero Waste

07 Sustainable Procurement

08 Sustainable Foodservices

09 Sustainable Water Systems

\* Academic & Environmental Justice



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But what is Zero Waste?



## University of California defines Zero Waste as:

“The University zero waste goal is made up of incremental waste reduction and waste diversion targets. The University recognizes the attainment of reduction goals stated in this Policy and a **90% diversion of municipal solid waste** as minimum compliance standard to be defined as a zero waste for locations other than health locations.”

- UC Policy on Sustainable Practices, p. 8



# Zero Waste Approaches

## Policy Areas



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**Decrease waste  
generated**



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**Increase waste  
diversion**



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**Track GHG  
emissions**



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**Phase out  
single-use items**

# Zero Waste Approaches

## Policy Goals



- 25% reduction per capita from FY 2015/16 levels by 2025
- 50% reduction per capita from FY 2015/16 levels by 2030



Divert 90% of waste from landfills



Zero GHG emissions by 2050



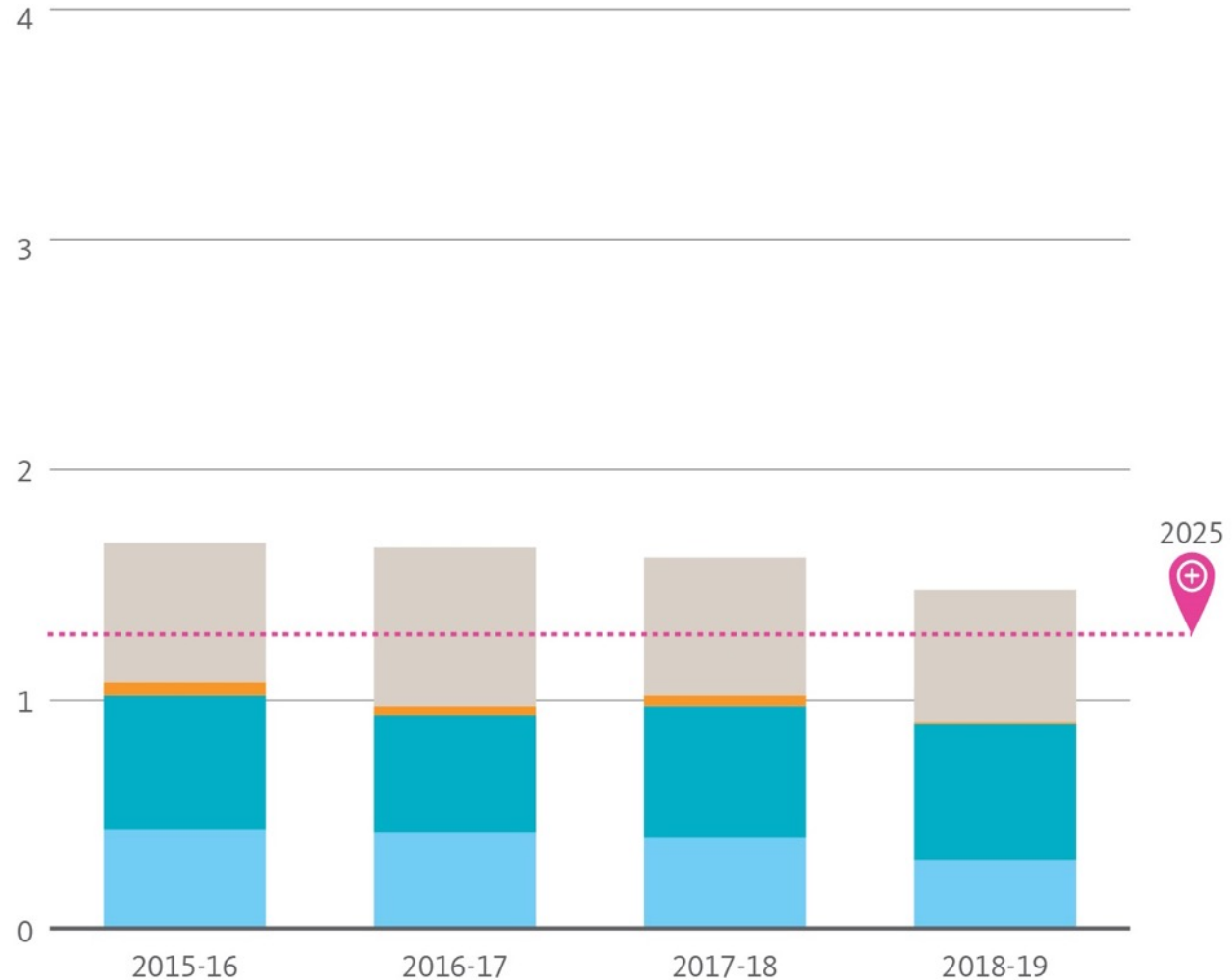
Complete phase out of single-use items by 2023

# Systemwide Efforts: Waste Generation

## UC DAILY PER CAPITA WASTE GENERATION

(Pounds)

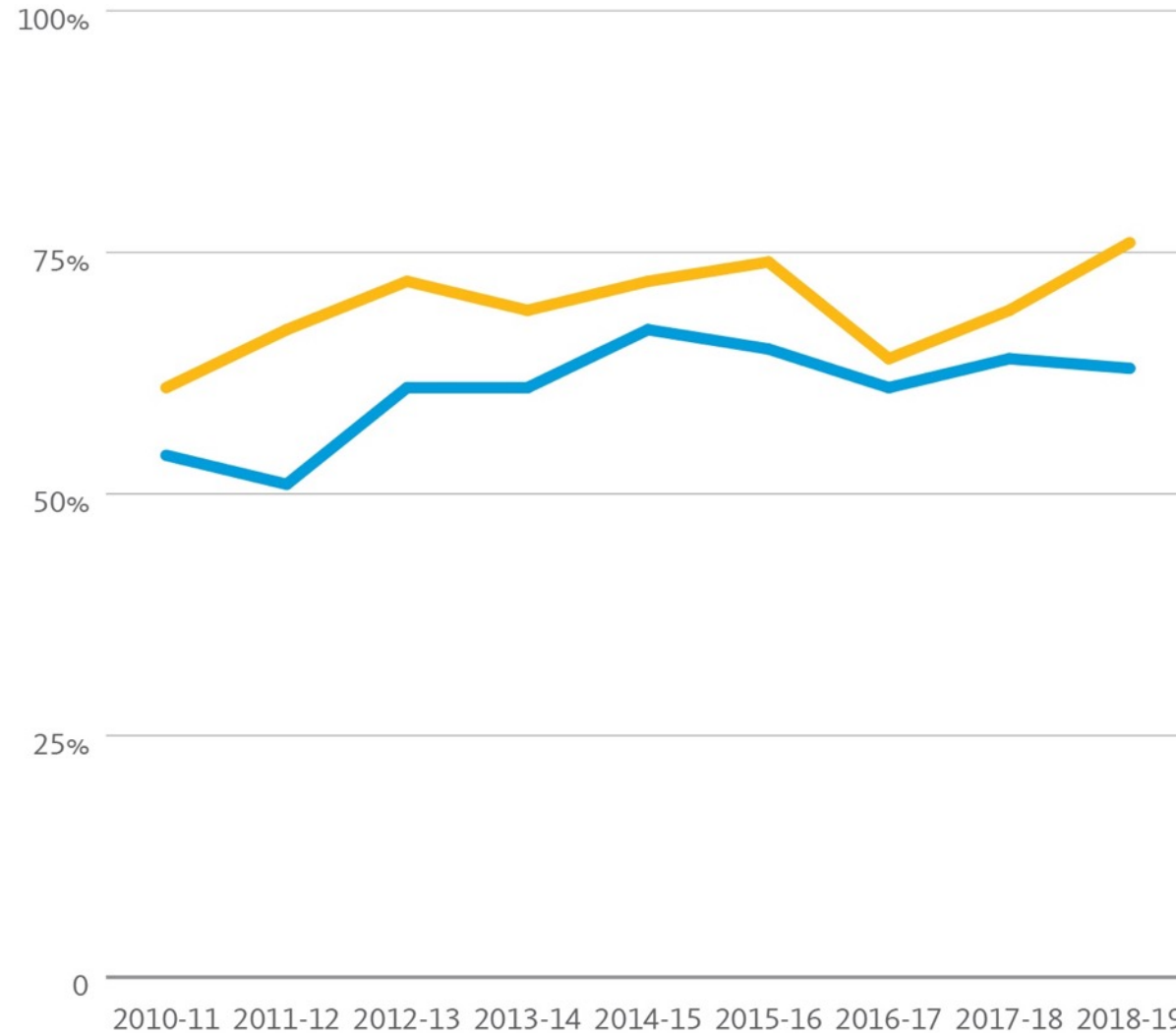
- Recycle
- Organics
- Allowable conversion
- Landfill
- 2025 Goal: 25% decrease in waste generation from 2015-16



# Systemwide Efforts: Diversion

## UC WASTE DIVERTED FROM LANDFILL

- Diversion Rate (C&D+MSW)
- Diversion Rate (MSW)



# University Of California Announces Plan To Phase Out Single-Use Plastics At All 10 Campuses By 2030

By CBSLA Staff August 24, 2020 at 1:45 pm Filed Under: [KCAL 9](#), [Los Angeles](#), [Los Angeles News](#), [Single-Use Plastics](#), [UC](#), [University of California](#)




Getty Images/File

University Of California Announces Plan To Phase Out Single-Use Plastics At All Campuses 

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# Summary of Single-use Plastic Policy Changes

Policy	Date	Items Affected	Similar Policies
Eliminate plastic bags in retail and foodservice establishments	1/1/2021	Plastic bags	CSU; Statewide (SB-270); 135 CA cities/counties
Replace single-use plastic foodware accessory items with locally compostables or reusables provided on request	7/1/2021	Utensils, straws, stirrers, chopsticks, cup lids & sleeves, trays, condiments, toothpicks, etc.	CSU (straws); Berkeley; Manhattan Beach; San Anselmo; SF; LA (straws/stirrers); EU; Statewide AB-1884 (straws on request)
Dine-in facilities provide reusable foodware items with food consumed onsite	7/1/2022	Cups, bowls, plates, and hinged containers	State facilities (SB-1335); Berkeley; San Anselmo; Santa Monica
To-go facilities replace single-use plastic foodware items with reusables or locally compostables	7/1/2022		State facilities (SB-1335); Berkeley; San Anselmo; Santa Monica
Phase-out the sale of single-use plastic beverage bottles		Plastic bottles	CSU; San Francisco; SFO Alameda County (operations),
<ul style="list-style-type: none"> <li>At food service facilities</li> </ul>	1/1/2023		
<ul style="list-style-type: none"> <li>Other bottled beverages</li> </ul>	@ contract renewal		

# Systemwide Education and Engagement



**Vox & UC Collaboration**  
Created 9 videos covering single-use & food waste along with other climate topics, Currently, there are over 19.2+ million views in total.



**#MyLastTrash Campaign**  
Created outreach toolkit for each campus to use for consistent messaging across the system.



**Cool Campus Challenge**  
Systemwide web-based challenge where individual climate actions are tracked in a point system.



# UC Riverside's Zero Waste Efforts



# UCR Facilities Services

- Zero Waste Office Stations will increase sorting and reduce collection time.
- Big Belly's reduced collections by 89%
- 30+ hydration stations installed across campus, help reduce single-use plastic water bottle waste.
- Student Recycling Program increases collection frequency in high traffic areas. Piloting coffee ground pick up and drop off at R'Garden.

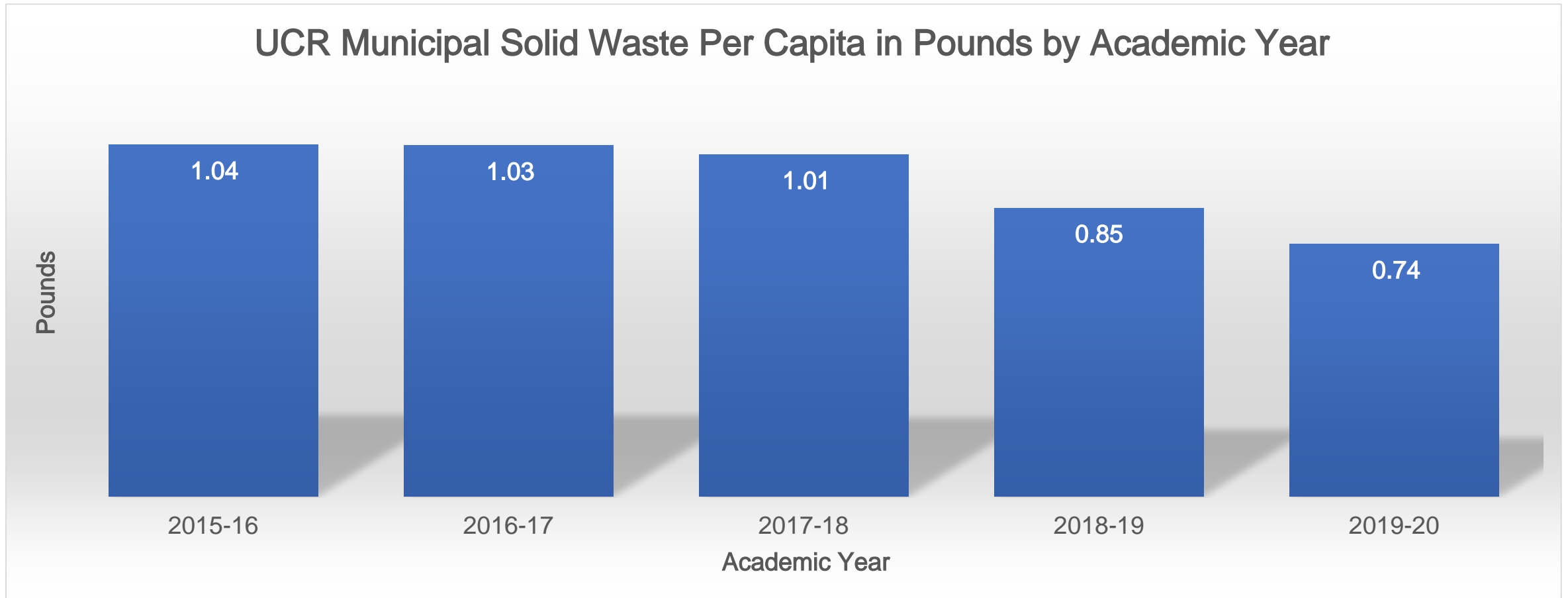




## UCR Dining Services

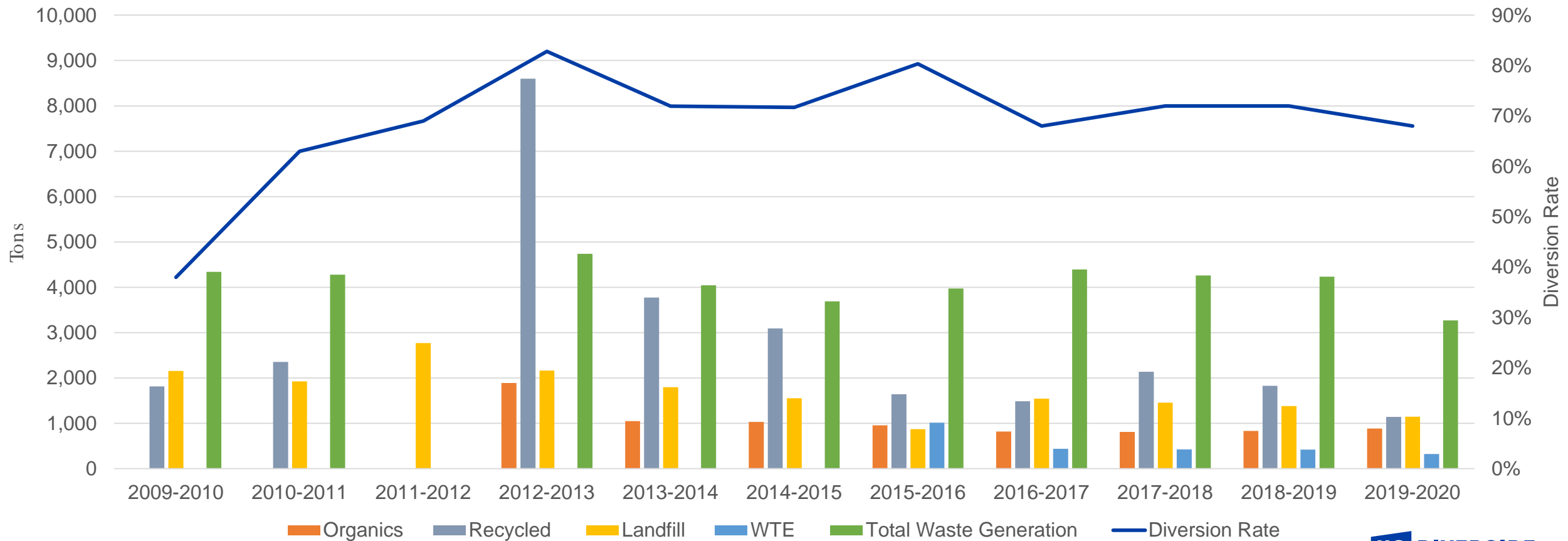
- Switched to compostable plate ware materials in 2009
- Implemented trayless dining in 2009 reducing food waste by 50% in Dining Halls
- Convenience stores changing their #1 selling item, water bottles, from plastic to aluminum.
- Vending machines will convert to aluminum
- Worked with Subway to convert from plastic bag to paper bag.
- The new Barn will feature reusable plate ware for dine in guest

# UCR's Zero Waste Progress: Waste Generation



# UCR's Zero Waste Progress: Waste Diversion

## Total Municipal Solid Waste Diversion In Tons By Academic Year



# Thank you!



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