

Quantifying Emissions

Using preliminary data provided by the TXST Recycling and Waste Management team, the Spring 2024 move-out season produced approximately

8,595.46 kg of CO₂



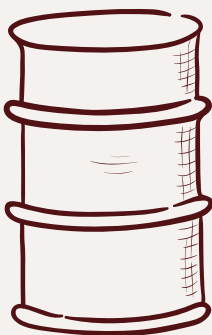
Roll-off TDS dumpster at San Marcos Hall during the 2024 on-campus move-out period.

It is important to note that the carbon dioxide calculated only represents the CO₂ released during the transportation of waste within the roll-off dumpsters from the San Marcos campus to the Texas Disposal Systems' (TDS) landfill outside of Austin, TX. Information not included in the calculation:

1. Weight of waste within roll-off dumpsters. Weight of waste will influence CO₂ due to heavier loads requiring more fuel.
2. CO₂ released of materials once disposed of within the landfill.

Visualizing Impact

8,595.46 kg of CO₂ is equivalent to:



19.9 barrels of oil consumed



9,472 pounds of coal burned



Charging 567,413 smartphones

This amount is equivalent to carbon sequestered by **142 tree seedlings** grown for **10 years**.