Memorandum

MIAMI-DADE COUNTY

Date: December 17, 2015

To: Honorable Chairman Jean Monestime
and Members, Board of County Commissioners

From: Carlos A. Gimenez
Mayor

Subject: Report on the Amount of Garbage Produced and Water Used Per Person - Directive 151386

At the June 15, 2015 Strategic Planning and Government Operations Committee meeting, Commissioner Juan C. Zapata directed the Administration to prepare and submit a report on the amount of garbage produced and water used per person.

During calendar year 2014, the Miami-Dade Water and Sewer Department used 135 gallons per capita per day.

The most accurate waste generation data available is Public Works and Waste Management Department (PWWM) scale and Waste Collection System data contained in the PWWM's Waste Management Enterprise Fund Comprehensive Annual Financial Report for Fiscal Year 2013-14. This data relates to waste collection in the Solid Waste Collection Service Area (SWCSA), which includes the Unincorporated Municipal Service Area (UMSA) and the eight (8) cities served by PWWM for waste collection. This approach to determining waste generation per person uses the number of households served in the SWCSA and the corresponding tons collected by PWWM. Using a U.S. census figure for persons per household in Miami-Dade County (County), we are able to determine the pounds per person per day generated at the household level (refer to the table below).

Miami-Dade County Waste Generation 2014 *Based on Solid Waste Collection Service Area (SWCSA) Households and Tons*	
SWCSA Households Served	326,396 *
Persons Per Household	3.2 **
SWCSA Waste Collected/Disposed (tons); includes garbage 62%, bulky Waste 30%, recycling 8%	771,393
SWCSA Waste Generated per Household (tons/year)	2.36
SWCSA Waste Generated per Household (pounds/year)	4,727
SWCSA Waste Generated per Person (pounds/year)	1,477
SWCSA Waste Generated per Person (pounds/day)	4.05

* Waste Enterprise Fund Comprehensive Annual Financial Report (CAFR) FY 2013-14
** U.S. Census Bureau Quickfacts 2009-13 of Miami-Dade County

The resulting 4.05 pounds/person/day figure is in line with the United States Environmental Protection Agency (USEPA) nationwide figure of 4.40 pounds/person/day contained in their "Advancing Sustainable Materials Management: 2013 Fact Sheet," published in June of 2015.

The Florida Department of Environmental Protection (FDEP) figure of 7.63 pounds/person/day, contained in it's "Solid Waste Management in Florida 2014 Annual Report," however, varies significantly from the PWWM and USEPA result. This is because the FDEP figure includes all waste generated in the County, meaning all residential uses (e.g. single family homes, multi-family buildings/condominiums, etc.) and all commercial uses (e.g. retail stores, restaurants, offices, hotels, manufacturing facilities). FDEP divides their 2014 figure for total waste managed in the County by means of combustion, landfilling, and recycling (3,640,363 tons) by the County population estimate (2,613,692) to arrive at the pounds per person per day or pounds per capita per day.

Pursuant to Ordinance 14-65, this memorandum will be placed on the next available Board meeting.

If additional information is required, please contact Alina T. Hudak, Deputy Mayor/Director of the Public Works and Waste Management Department, at 305-375-2531.

c: Alina T. Hudak, Deputy Mayor/Director, Public Works and Waste Management Department
Lester Sola, Director, Miami-Dade Water and Sewer Department
Eugene Love, Agenda Coordinator, Office of Agenda Coordination