

International Water Association - American Water Works Association Standard Water Balance for the Philadelphia Water Department - Fiscal Year 2019						
Volumes reported in million gallons for the reporting year, and average million gallons per day, mgd in italic						
		Water Exported 474.5 1.3	Water Exported 474.5 1.3	Water Exported 474.5 1.3	Water Exported 474.5 1.3	Billed Water Exported 474.5 1.3
Own Sources 82,452.0 225.9	System Input 80,934.0 221.7	Water Supplied 80,459.5 220.4	Authorized Consumption 48,913.0 134.0	Billed Authorized Consumption 46,743.3 128.1	Revenue Water 46,743.3 128.1	Billed Metered Consumption 46,743.3 128.1
				Unbilled Authorized Consumption 2,169.7 5.9		
			Water Losses 31,546.5 86.4	Apparent Losses 6,024.1 16.5	Non-revenue Water 33,716.2 92.4	Unbilled Metered Consumption 0.0 0.0
				Real Losses 25,522.4 69.9		Unbilled Unmetered Consumption 2,169.7 5.9
						Customer Metering Inaccuracies 1,850.0 5.1
						Unauthorized Consumption 2,653.5 7.3
						Systematic Data Handling Error 1,520.5 4.2
						Leakage on Mains 11,586.9 31.7
						Leakage and Overflows at Storages 0.0 0.0
						Leakage on Service Connections up to the point of customer metering 13,935.5 38.2
- Correction 1,518.0 4.2	Water Imported 0					

Definitions of Terms
OWN SOURCES: the volume of water input to a water distribution system from the water supplier's own sources
WATER IMPORTED OR EXPORTED: the volumes of bulk transfers across operational boundaries
SYSTEM INPUT : the volume input to that part of the water supply system to which the water balance calculation relates, allowing for known errors. Equal to OWN SOURCES + WATER IMPORTED +/- CORRECTION for production meter error
WATER SUPPLIED: SYSTEM INPUT minus WATER EXPORTED
AUTHORIZED CONSUMPTION: volume of metered and/or unmetered water taken by registered customers, the water supplier and others who are implicitly or explicitly authorized to do so by the water supplier, for residential, commercial and industrial purposes. <i>Note: Authorized consumption may include items such as fire fighting and training, flushing of mains and sewers, street cleaning, watering of municipal gardens, public fountains, frost protection, building water, etc. These may be billed or unbilled, metered or unmetered</i>
WATER LOSSES: the difference between SYSTEM INPUT and AUTHORIZED CONSUMPTION. Water losses can be considered as a total volume for the whole system, or for partial systems such as raw water mains, transmission or distribution systems, or individual zones
APPARENT LOSSES: includes all types of inaccuracies associated with customer metering, systematic error or manipulation of consumption data in billing and accounting systems, plus unauthorized consumption (theft or illegal consumption).
REAL LOSSES: physical water losses from the pressurized system, up to the point of measurement of customer consumption. The annual volume lost through all types of leaks, breaks and overflows depends on frequencies, flow rates, and average duration of individual leaks, breaks and overflows
REVENUE WATER: those components of SYSTEM INPUT which are billed and produce revenue (also known as BILLED AUTHORIZED CONSUMPTION). Equal to BILLED WATER EXPORTED, BILLED METERED CONSUMPTION and BILLED UNMETERED CONSUMPTION
NON- REVENUE WATER: those components of SYSTEM INPUT which are not billed and do not produce revenue. Equal to UNBILLED AUTHORIZED CONSUMPTION, APPARENT LOSSES and REAL LOSSES
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Own Sources 79,896.0 218.3	System Input 80,722.8 220.6	Water Exported 521.5 <i>1.4</i>	Water Exported 521.5 <i>1.4</i>	Water Exported 521.5 <i>1.4</i>	Water Exported 521.5 <i>1.4</i>	Billed Water Exported 521.5 <i>1.4</i>	
		Water Supplied 80,201.3 219.1	Authorized Consumption 47,704.7 130.3	Billed Authorized Consumption 45,583.0 124.5	Revenue Water 45,583.0 124.5	Billed Metered Consumption 45,583.0 124.5	
				Unbilled Authorized Consumption 2,121.7 5.8	Non-revenue Water 34,618.3 94.7	Billed Unmetered Consumption 0.2 0.0	
		Water Losses 32,496.6 88.8	Apparent Losses 4,641.8 12.7	Unbilled Metered Consumption 0.0 0.0			
			Real Losses 27,854.7 76.2	Unbilled Unmetered Consumption 2,121.7 5.8			
		- Correction -826.8 -2.3	Water Imported 0				Customer Metering Inaccuracies 1,611.5 4.4
							Unauthorized Consumption 1,748.0 4.8
							Systematic Data Handling Error 1,282.3 3.5
							Leakage on Mains 12,906.0 35.4
							Leakage and Overflows at Storages 0.0 0.0
				Leakage on Service Connections up to the point of customer metering 14,948.8 40.8			

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International Water Association - American Water Works Association Standard Water Balance for the Philadelphia Water Department - Fiscal Year 2021						
Volumes reported in million gallons for the reporting year, and average million gallons per day, mgd in italic						
Own Sources	System Input	Water Exported	Water Exported	Water Exported	Water Exported	Billed Water Exported
		502.4	502.4	502.4	502.4	502.4
		1.4	1.4	1.4	1.4	1.4
		Water Supplied	Authorized Consumption	Billed Authorized Consumption	Revenue Water	Billed Metered Consumption
				44,814.2	44,814.2	44,814.2
		82,253.0	47,005.9	122.8	122.8	122.8
		82,755.4	226.7	Unbilled Authorized Consumption	Non-revenue Water	Billed Unmetered Consumption
						2,191.6
		81,374.5	222.9	Apparent Losses	37,438.8	Unbilled Metered Consumption
						6.0
- Correction	Water Imported	Water Losses	102.6	Unbilled Unmetered Consumption		
				35,247.2	2,191.6	
-1,380.9	0	96.6	14.5	6.0		
-3.8			5,296.6	6.0		
			29,950.6	4.7		
			82.1	6.3		
				3.5		
				3.5		
				4.0		

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