

International Water Association - American Water Works Association Standard Water Balance for the Philadelphia Water Department - Fiscal Year 2023						
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
		547.5	547.5	547.5	547.5	547.5
		1.5	1.5	1.5	1.5	1.5
		Water Supplied	Authorized Consumption	Billed Authorized Consumption	Revenue Water	Billed Metered Consumption
				45,937.5		
		83,623.1	48,227.4	45,937.5	45,937.5	45,937.5
		229.1	132.1	125.9	125.9	125.9
		84,170.6	Water Losses	Unbilled Authorized Consumption	Non-revenue Water	Billed Unmetered Consumption
				2,289.8		0.2
		230.6	35,395.7	2,289.8	37,685.6	Unbilled Metered Consumption
82,955.2	Water Losses	Apparent Losses	37,685.6	0.0		
		5,480.5		2,289.8	0.0	
227.3	97.0	6.3	103.2	Unbilled Unmetered Consumption		
- Correction	Water Imported	Real Losses	103.2	2,289.8		
		29,915.3		1,800.6	4.9	
-1,215.4	0	82.0	1,248.7	Customer Metering Inaccuracies		
-3.3			1,248.7	2,431.2		
				6.7		
				Systematic Data Handling Error		
				1,248.7		
				3.4		
				Leakage on Mains		
				13,857.1		
				38.0		
				Leakage and Overflows at Storages		
				0.0		
				0.0		
				Leakage on Service Connections up to the point of customer metering		
				16,058.2		
				44.0		

Definitions of Terms
<b>OWN SOURCES:</b> the volume of water input to a water distribution system from the water supplier's own sources
<b>WATER IMPORTED OR EXPORTED:</b> the volumes of bulk transfers across operational boundaries
<b>SYSTEM INPUT :</b> 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
<b>WATER SUPPLIED:</b> SYSTEM INPUT minus WATER EXPORTED
<b>AUTHORIZED CONSUMPTION:</b> 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>
<b>WATER LOSSES:</b> 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
<b>APPARENT LOSSES:</b> 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).
<b>REAL LOSSES:</b> 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
<b>REVENUE WATER:</b> 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
<b>NON- REVENUE WATER:</b> 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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		693.5	693.5	693.5	693.5	693.5	
		1.9	1.9	1.9	1.9	1.9	
		Water Supplied	Authorized Consumption	Billed Authorized Consumption	Revenue Water	Billed Metered Consumption	
				46,197.5	46,197.5		46,197.5
				126.6	126.6		126.6
		82,098.7	48,702.9	Unbilled Authorized Consumption	Non-revenue Water	Billed Unmetered Consumption	
				2,505.5		35,901.2	4.0
		224.9	133.4	Apparent Losses	98.4	Unbilled Metered Consumption	
				4,944.8		2,035.9	0.0
81,748.1	Water Losses	Real Losses	Customer Metering Inaccuracies	Unbilled Unmetered Consumption			
		33,395.8	1,771.5	2,505.5			
224.0	91.5	77.9	Unauthorized Consumption	Customer Metering Inaccuracies			
			28,451.0	2,035.9	1,771.5		
- Correction	Water Imported		Systematic Data Handling Error	Leakage on Mains			
			-1,044.1	1,137.4	13,090.9		
-2.9	0		Leakage and Overflows at Storages	Leakage on Service Connections up to the point of customer metering			
				0.0	0.0		
				15,360.1			
				42.1			

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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
				122.8	122.8	122.8
		82,253.0	47,005.9	Unbilled Authorized Consumption	Non-revenue Water	Billed Unmetered Consumption
				2,191.6		0.0
				6.0		0.0
		82,755.4	226.7	Water Losses	37,438.8	Unbilled Metered Consumption
5,296.6	2,191.6					
14.5	6.0					
81,374.5	222.9	35,247.2	102.6	Unbilled Unmetered Consumption		
				29,950.6	2,191.6	
				96.6	6.0	
- Correction	Water Imported	0	0	Customer Metering Inaccuracies		
				1,724.1	4.7	
				2,286.9	6.3	
-1,380.9	0	0	0	Unauthorized Consumption		
				1,285.5	3.5	
				1,285.5	3.5	
-3.8	0	0	0	Systematic Data Handling Error		
				13,877.5	38.0	
				0.0	0.0	
				Leakage on Mains		
				Leakage and Overflows at Storages		
				Leakage on Service Connections up to the point of customer metering		
				16,073.1		
				44.0		

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