

International Water Association - American Water Works Association Standard Water Balance for the Philadelphia Water Department - Fiscal Year 2014						
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
		5,329.0	5,329.0	5,329.0	5,329.0	5,329.0
		14.6	14.6	14.6	14.6	14.6
		Water Supplied	Authorized Consumption	Billed Authorized Consumption	Revenue Water	Billed Metered Consumption
				48,384.9	48,384.9	
		82,054.0	49,724.4	48,384.9	48,384.9	48,384.9
		224.8	136.2	132.6	132.6	132.6
		87,383.0	Water Losses	Unbilled Authorized Consumption	Non-revenue Water	Billed Unmetered Consumption
				1,339.5		0.0
		239.4	32,329.6	3.7	33,669.1	0.0
87,360.3	Water Imported	Apparent Losses	Real Losses	Unbilled Metered Consumption		
		6,994.4		1,339.5	3.7	
239.3	88.6	19.2	92.2	3.7		
-22.7	0	Real Losses	Leakage on Mains	Customer Metering Inaccuracies		
		69.4	11,529.9	4.0		
-0.1	0	Leakage and Overflows at Storages	Unauthorized Consumption	Systematic Data Handling Error		
		0.0	5.2	10.0		
-0.1	0	Leakage on Service Connections up to the point of customer metering	Systematic Data Handling Error	Leakage on Mains		
		13,805.3	3,654.3	31.6		
				Leakage and Overflows at Storages		
				0.0		
				0.0		
				13,805.3		
				37.8		

Definitions of Terms
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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. 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
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). Note: Over-registration of customer meters, leads to under-estimation of REAL LOSSES. Under-registration of customer meters, leads to over-estimation of REAL LOSSES.
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 Note: Although physical losses after the point of customer flow measurement or assumed consumption are excluded from the assessment of REAL LOSSES, this does not necessarily mean that they are insignificant or unworthy of attention for demand management purposes
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 83,159.7 227.8	System Input 84,224.1 230.8	Water Exported 949.0 2.6	Water Exported 949.0 2.6	Water Exported 949.0 2.6	Water Exported 949.0 2.6	Billed Water Exported 949.0 2.6		
		Water Supplied 83,275.1 228.2	Authorized Consumption 50,215.5 137.6	Billed Authorized Consumption 48,891.3 133.9		Revenue Water 48,891.3 133.9	Billed Metered Consumption 48,891.3 133.9	
				Unbilled Authorized Consumption 1,324.2 3.6		Non-revenue Water 34,383.8 94.2	Billed Unmetered Consumption 0.0 0.0	
				Apparent Losses 5,924.1 16.2			Unbilled Metered Consumption 0.0 0.0	
		Water Losses 33,059.6 90.6	Real Losses 27,135.5 74.3	Unbilled Unmetered Consumption 1,324.2 3.6		Customer Metering Inaccuracies 2,085.9 5.7	Unauthorized Consumption 2,060.3 5.6	
				Leakage on Mains 11,745.2 32.2		Systematic Data Handling Error 1,777.8 4.9	Leakage and Overflows at Storages 0.0 0.0	
				Leakage on Service Connections up to the point of customer metering 15,390.3 42.2				
		- Correction -1,064.4 -2.9	Water Imported 0					

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Own Sources 80,746.9 220.6	System Input 81,464.3 223.2	Water Exported 547.5 1.5	Water Exported 547.5 1.5	Water Exported 547.5 1.5	Water Exported 547.5 1.5	Billed Water Exported 547.5 1.5			
		Water Supplied 80,916.8 221.7	Authorized Consumption 49,333.6 135.2	Billed Authorized Consumption 47,986.4 131.5	Revenue Water 47,986.4 131.5	Billed Metered Consumption 47,986.4 131.5			
				Unbilled Authorized Consumption 1,347.2 3.7	Non-revenue Water 32,930.4 90.2	Billed Unmetered Consumption 0.0 0.0			
		Water Losses 31,583.2 86.5	Apparent Losses 5,724.1 15.7	Unbilled Metered Consumption 0.0 0.0		Unbilled Unmetered Consumption 1,347.2 3.7			
				Real Losses 25,859.1 70.8		Customer Metering Inaccuracies 2,115.2 5.8	Unauthorized Consumption 2,357.3 6.5		
		- Correction -940.6 -2.6	Water Imported 0						Systematic Data Handling Error 1,251.7 3.4
									Leakage on Mains 10,902.8 29.9
									Leakage on Service Connections up to the point of customer metering 14,956.3 41.0

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Own Sources 79,963.6 219.1	System Input 81,295.1 222.7	Water Exported 547.5 <i>1.5</i>	Water Exported 547.5 <i>1.5</i>	Water Exported 547.5 <i>1.5</i>	Water Exported 547.5 <i>1.5</i>	Billed Water Exported 547.5 <i>1.5</i>	
		Water Supplied 80,747.6 221.2	Authorized Consumption 48,862.0 133.9	Billed Authorized Consumption 47,412.7 129.9	Revenue Water 47,412.7 129.9	Billed Metered Consumption 47,412.7 129.9	
				Unbilled Authorized Consumption 1,449.3 4.0	Non-revenue Water 33,334.9 91.3	Billed Unmetered Consumption 0.0 0.0	
		Apparent Losses 6,304.1 17.3	Unbilled Metered Consumption 0.0 0.0	Unbilled Unmetered Consumption 1,449.3 4.0			
			Water Losses 31,885.6 87.4	Real Losses 25,581.5 70.1		Customer Metering Inaccuracies 2,038.1 5.6	
		- Correction -1,331.5 -3.6		Water Imported 0		Unauthorized Consumption 2,736.0 7.5	Systematic Data Handling Error 1,530.0 4.2
			Leakage on Mains 11,476.9 31.4			Leakage and Overflows at Storages 0.0 0.0	
				Leakage on Service Connections up to the point of customer metering 14,104.6 38.6			

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Own Sources 81,005.2 221.9	System Input 81,459.1 223.2	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	
		Water Supplied 80,984.6 221.9	Authorized Consumption 48,095.4 131.8	Billed Authorized Consumption 46,552.1 127.5		Revenue Water 46,552.1 127.5	Billed Metered Consumption 46,552.1 127.5
				Unbilled Authorized Consumption 1,543.3 4.2		Non-revenue Water 34,432.5 94.3	Billed Unmetered Consumption 0.0 0.0
				Apparent Losses 5,630.3 15.4			Unbilled Metered Consumption 0.0 0.0
		Water Losses 32,889.2 90.1	Real Losses 27,258.9 74.7		Unbilled Unmetered Consumption 1,543.3 4.2		
					Customer Metering Inaccuracies 1,891.5 5.2		
					Unauthorized Consumption 2,238.4 6.1		
		- Correction -474.5 -1.3	Water Imported 0			Systematic Data Handling Error 1,500.4 4.1	
						Leakage on Mains 12,155.8 33.3	
						Leakage and Overflows at Storages 0.0 0.0	
				Leakage on Service Connections up to the point of customer metering 15,103.1 41.4			

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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		Billed Unmetered Consumption 0.2 0.0
			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					

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