

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.

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).

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

UNBILLED AUTHORIZED CONSUMPTION: those components of AUTHORIZED CONSUMPTION which are not billed and do not produce revenue. Equal to UNBILLED METERED CONSUMPTION and UNBILLED UNMETERED CONSUMPTION

International Water Association - American Water Works Association Standard Water Balance for the Philadelphia Water Department - Fiscal Year 2017

Volumes reported in million gallons for the reporting year; and average million gallons per day, mgd in italic

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

International Water Association - American Water Works Association Standard Water Balance for the Philadelphia Water Department - Fiscal Year 2016

Volumes reported in million gallons for the reporting year; and average million gallons per day, mgd in italic

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

International Water Association - American Water Works Association Standard Water Balance for the Philadelphia Water Department - Fiscal Year 2015

Volumes reported in million gallons for the reporting year; and average million gallons per day, mgd in italic

		Water Exported	Water Exported	Water Exported	Water Exported	Billed Water Exported
		949.0 2.6	949.0 2.6	949.0 2.6	949.0 2.6	949.0 2.6
	System Input	Water Supplied	Authorized Consumption	Billed Authorized Consumption	Revenue Water	Billed Metered Consumption
				48,891.3 133.9		48,891.3 133.9
Own Sources	84,224.1 230.8	83,275.1 228.2	50,215.5 137.6	Unbilled Authorized Consumption	Non-revenue Water	Billed Unmetered Consumption
				1,324.2 3.6		0.0 0.0
83,159.7 227.8			Water Losses	Apparent Losses	34,383.8 94.2	Unbilled Metered Consumption
				5,924.1 16.2		1,324.2 3.6
- Correction	Water Imported		33,059.6 90.6	Real Losses		Unbilled Unmetered Consumption
				27,135.5 74.3		2,085.9 5.7
-1,064.4 -2.9	0					Customer Metering Inaccuracies
						2,060.3 5.6
						Systematic Data Handling Error
						1,777.8 4.9
						Leakage on Mains
						11,745.2 32.2
						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

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

		Water Exported 5,329.0 <i>14.6</i>	Water Exported 5,329.0 <i>14.6</i>	Water Exported 5,329.0 <i>14.6</i>	Water Exported 5,329.0 <i>14.6</i>	Billed Water Exported 5,329.0 <i>14.6</i>
				Billed Authorized Consumption	Revenue Water	Billed Metered Consumption 48,384.9 <i>132.6</i>
	Water Supplied		Authorized Consumption 49,724.4 <i>136.2</i>	48,384.9 <i>132.6</i>	48,384.9 <i>132.6</i>	Billed Unmetered Consumption 0.0 <i>0.0</i>
	System Input	82,054.0 <i>224.8</i>		Unbilled Authorized Consumption 1,339.5 <i>3.7</i>		Unbilled Metered Consumption 0.0 <i>0.0</i>
Own Sources	87,383.0 <i>239.4</i>			Apparent Losses	Non-revenue Water	Unbilled Unmetered Consumption 1,339.5 <i>3.7</i>
87,360.3 <i>239.3</i>			Water Losses	6,994.4 <i>19.2</i>	33,669.1 <i>92.2</i>	Customer Metering Inaccuracies 1,453.6 <i>4.0</i>
			32,329.6 <i>88.6</i>	Real Losses		Unauthorized Consumption 1,886.5 <i>5.2</i>
				25,335.2 <i>69.4</i>		Systematic Data Handling Error 3,654.3 <i>10.0</i>
- Correction	Water Imported					Leakage on Mains 11,529.9 <i>31.6</i>
-22.7 <i>-0.1</i>	0					Leakage and Overflows at Storages 0.0 <i>0.0</i>
						Leakage on Service Connections up to the point of customer metering 13,805.3 <i>37.8</i>

International Water Association - American Water Works Association Standard Water Balance for the Philadelphia Water Department - Fiscal Year 2013

Volumes reported in million gallons for the reporting year; and average million gallons per day, mgd in italic

		Water Exported 5,219.5 <i>14.3</i>	Water Exported 5,219.5 <i>14.3</i>	Water Exported 5,219.5 <i>14.3</i>	Water Exported 5,219.5 <i>14.3</i>	Billed Water Exported 5,219.5 <i>14.3</i>
				Billed Authorized Consumption 50,279.4 <i>137.8</i>	Revenue Water 50,279.4 <i>137.8</i>	Billed Metered Consumption 50,279.4 <i>137.8</i>
	Water Supplied 81,778.6 <i>224.1</i>	Authorized Consumption 52,238.5 <i>143.1</i>				Billed Unmetered Consumption 0.0 <i>0.0</i>
	System Input 86,998.1 <i>238.4</i>		Unbilled Authorized Consumption 1,959.0 <i>5.4</i>			Unbilled Metered Consumption 0.0 <i>0.0</i>
Own Sources 87,964.5 <i>241.0</i>			Apparent Losses 7,494.9 <i>20.5</i>		Non-revenue Water 31,499.2 <i>86.3</i>	Unbilled Unmetered Consumption 1,959.0 <i>5.4</i>
			Water Losses 29,540.1 <i>80.9</i>			Customer Metering Inaccuracies 1,490.2 <i>4.1</i>
				Real Losses 22,045.2 <i>60.4</i>		Unauthorized Consumption 2,425.5 <i>6.6</i>
- Correction -966.4 <i>-2.6</i>	Water Imported 0					Systematic Data Handling Error 3,579.3 <i>9.8</i>
						Leakage on Mains 10,143.0 <i>27.8</i>
						Leakage and Overflows at Storages 0.0 <i>0.0</i>
						Leakage on Service Connections up to the point of customer metering 11,902.3 <i>32.6</i>