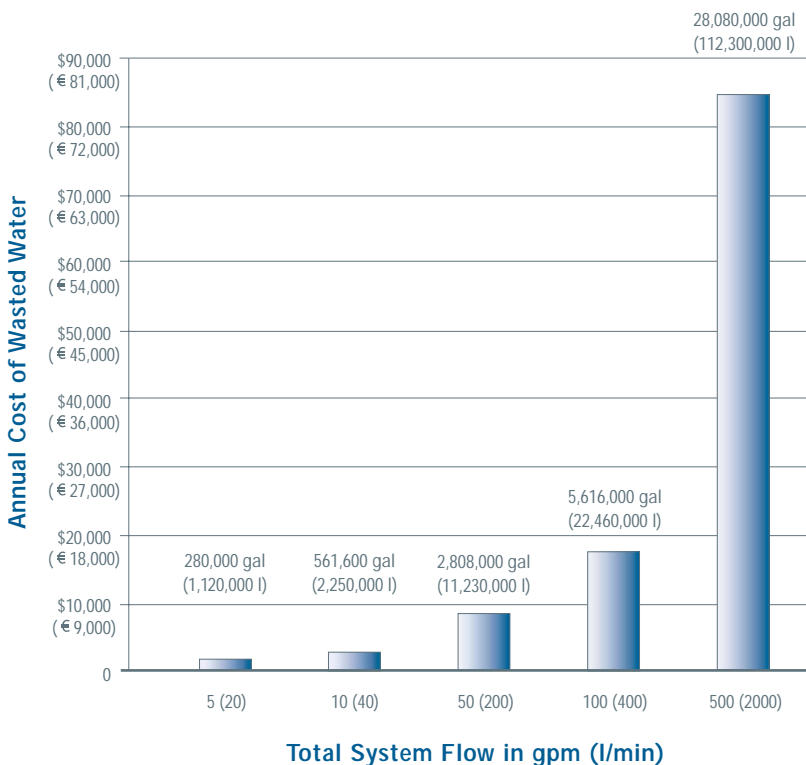


The costly consequences of a spray system that isn't optimized

## If you are spraying water:



Based on a 5 day work week, 24 hours per day, assuming 15% waste rate.  
 Water/sewage cost: \$0.003 (€0.0027) per gallon — \$0.00079 (€0.00071) per liter

**Note:** The cost of wastewater disposal should also be considered.  
 In addition, excessive wastewater may aggravate water shortage problems.  
 All € figures calculated with a conversion factor of 1USD = €0.90.

The costly consequences of a spray system that isn't optimized

If you're spraying solutions, coatings, solvents, lubricants:

Total Spray System Flow gpm (l/min)	Annual Chemical Waste* gallons (liters)	Price Per Unit gallon (liter)	Annual Cost of Wasted Liquid \$USD (€ Euro)
.10 (.50)	5,620 (28,080)	.50 (.10)	2,810 (2,529)
		2.00 (.40)	11,240 (10,116)
		5.00 (1.00)	28,100 (25,290)
		20.00 (4.00)	112,400 (101,160)
.25 (1.25)	14,040 (70,200)	.50 (.10)	7,020 (6,320)
		2.00 (.40)	28,080 (25,272)
		5.00 (1.00)	70,200 (63,180)
		20.00 (4.00)	280,800 (252,720)
1.0 (5.0)	56,200 (281,000)	.50 (.10)	28,100 (25,290)
		2.00 (.40)	112,400 (101,160)
		5.00 (1.00)	281,000 (252,900)
		20.00 (4.00)	1,124,000 (1,011,600)
3.0 (15.0)	168,480 (842,000)	.50 (.10)	84,240 (75,820)
		2.00 (.40)	336,960 (303,260)
		5.00 (1.00)	842,400 (758,160)
		20.00 (4.00)	3,369,600 (3,032,640)

\* 6,240 hours per year based on 24 hours per day, 5 days per week, assuming 15% waste.

The effect on electrical power consumption:

At 40 psi / 3 bar

Total Spray System Flow gpm (l/min)	Annual Excess Pumped* gallons (m³)	Annual Waste in Kilowatts at 40 psi (3 bar)	Cost of Waste ** \$USD (€ Euro)
5 (20)	280,000 (1,120)	112 (129)	9 (9)
10 (40)	561,600 (2,240)	225 (258)	18 (19)
50 (200)	2,808,000 (11,200)	1,120 (1,290)	90 (93)
100 (400)	5,616,000 (22,400)	2,250 (2,580)	180 (185)
500 (2,000)	28,080,000 (112,000)	11,200 (12,900)	896 (929)

At 2000 psi / 100 bar

Total Spray System Flow gpm (l/min)	Annual Excess Pumped* gallons (m³)	Annual Waste in Kilowatts at 2,000 psi (100 bar)	Cost of Waste ** \$USD (€ Euro)
5 (20)	280,000 (1,120)	5,616 (4,280)	449 (308)
10 (40)	561,600 (2,240)	11,230 (8,560)	898 (617)
50 (200)	2,808,000 (11,200)	56,200 (42,800)	4,496 (3,082)
100 (400)	5,616,000 (22,400)	112,300 (85,600)	8,984 (6,163)
500 (2,000)	28,080,000 (112,000)	562,000 (428,000)	44,960 (30,816)

\* 6,240 hours per year based on 24 hours per day, 5 days per week, assuming 15% waste.

\*\* \$.08/€ .072 per kilowatt hour