

Appliance Standards Awareness Project

2024 State Appliance Standards Recommendations

Savings estimates for: Missouri

	Potential annual savings in 2030						Potential annual savings in 2040					
	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)	Electricity (GWh)	Natural gas (BBtu)	Water (million gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)
Commercial battery chargers	2.5	--	--	0.2	0.3	0.6	7.1	--	--	0.6	0.6	1.5
Commercial dishwashers	5.2	128	178	6.2	0.6	8.0	15.2	374	521	18.2	1.3	23.1
Commercial fryers	1.4	479	--	21.8	0.2	25.8	3.8	1,278	--	58.2	0.3	68.7
Commercial ovens	3.8	61	--	3.1	0.5	4.1	10.1	162	--	8.2	0.9	10.7
Commercial steam cookers	2.4	19	53	1.1	0.3	1.6	6.4	51	142	2.8	0.6	4.1
Faucets	25.2	133	653	8.1	3.0	13.0	55.9	294	1,444	17.9	4.9	27.5
Gas fireplaces	--	88	--	4.0	--	4.6	--	282	--	12.8	--	15.0
High CRI fluorescent lamps	32.0	--	--	2.7	3.9	7.6	11.5	--	--	0.9	1.0	2.5
Irrigation controllers	--	--	1,815	--	--	--	--	--	5,847	--	--	--
Portable electric spas	13.6	--	--	1.1	1.6	3.2	26.8	--	--	2.2	2.4	5.7
Residential ventilating fans	2.1	--	--	0.2	0.2	0.5	6.6	--	--	0.5	0.6	1.4
Showerheads	31.9	166	561	10.2	3.8	16.4	70.9	369	1,247	22.5	6.2	34.8
Spray sprinkler bodies	--	--	3,339	--	--	--	--	--	7,420	--	--	--
Toilets (water closets)	--	--	237	--	--	--	--	--	721	--	--	--
Urinals	--	--	53	--	--	--	--	--	141	--	--	--
Water coolers	20.5	--	--	1.7	2.5	4.8	45.6	--	--	3.7	4.0	9.7
Total	141	1,074	6,555	60	17	90	260	2,810	15,295	149	23	205

Assuming a compliance date of 2026 for all the recommended standards. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, we have not estimated savings for these products due to insufficient data on the current market. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total water savings. The total potential water savings are thus smaller than the sum of the individual products.

Savings estimates for: Missouri

	Potential annual utility bill savings (million 2022\$)		Net present value savings (million 2022\$)	Payback period (years)
	In 2030	In 2040		
Commercial battery chargers	0.2	0.5	3.4	2.7
Commercial dishwashers	4.1	13.4	113.8	1.2
Commercial fryers	3.9	11.8	73.7	3.4
Commercial ovens	0.8	2.3	3.2	8.0
Commercial steam cookers	1.1	3.4	29.7	1.0
Faucets	13.6	33.6	339.6	0.0
Gas fireplaces	0.9	3.3	27.3	1.1
High CRI fluorescent lamps	2.8	1.0	11.5	2.3
Irrigation controllers	26.4	98.3	895.2	0.8
Portable electric spas	1.4	2.8	23.4	1.2
Residential ventilating fans	0.2	0.7	6.5	0.0
Showerheads	13.3	32.8	330.5	0.0
Spray sprinkler bodies	48.6	124.8	1,155.6	0.8
Toilets (water closets)	3.5	12.1	151.2	0.0
Urinals	0.8	2.4	23.3	0.0
Water coolers	1.7	3.8	38.4	0.0
Total	118	310	3,102	-

Assuming a compliance date of 2026 for all the recommended standards. Net present value savings take into account both utility bill savings and estimated impacts on product costs for items sold between 2026 and 2050. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, we have not estimated savings for these products due to insufficient data on the current market. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total savings. The totals are thus smaller than the sum of the individual products.

Cumulative savings estimates for: Missouri

	Potential cumulative savings through 2050						Utility bill savings (million 2022\$)
	Electricity (GWh)	Natural gas (TBtu)	Water (billion gallons)	NO _x (tons)	SO ₂ (tons)	CO ₂ (thous. MT)	
Commercial battery chargers	133	--	--	10.7	12.5	28.2	9.7
Commercial dishwashers	280	6.9	9.6	335.0	26.4	425.8	247.8
Commercial fryers	73	24.3	--	1,106.5	6.9	1,305.5	220.8
Commercial ovens	192	3.1	--	154.8	18.2	204.2	43.2
Commercial steam cookers	121	1.0	2.7	53.6	11.5	77.2	64.5
Faucets	1,119	5.9	28.9	356.9	107.8	551.8	673.2
Gas fireplaces	--	5.1	--	231.4	--	271.2	58.7
High CRI fluorescent lamps	383	--	--	33.8	49.4	92.8	33.3
Irrigation controllers	--	--	105.9	--	--	--	1,809.2
Portable electric spas	545	--	--	44.4	53.4	117.7	57.5
Residential ventilating fans	120	--	--	9.7	11.2	25.4	12.7
Showerheads	1,417	7.4	24.9	449.4	136.6	695.8	655.3
Spray sprinkler bodies	--	--	148.4	--	--	--	2,505.6
Toilets (water closets)	--	--	15.0	--	--	--	258.7
Urinals	--	--	2.7	--	--	--	45.5
Water coolers	912	--	--	73.8	87.9	195.3	76.1
Total	5,294	54	301	2,860	522	3,991	6,134

Assuming a compliance date of 2026 for all the recommended standards. While we continue to recommend the adoption of state-level standards for commercial hot-food holding cabinets and computers and computer monitors, we have not estimated savings for these products due to insufficient data on the current market. We accounted for the interaction effects among irrigation controllers and spray sprinkler bodies in calculating the total water and utility bill savings. The total potential water and utility bill savings are thus smaller than the sum of the individual products.